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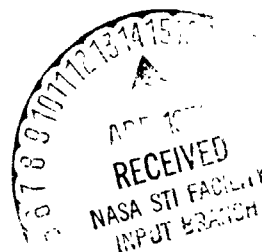
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COEFFICIENTS OF ASSOCIATED LEGENDRE FUNCTIONS

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16. ABSTRACT The exact coefficients for the explicit forms of the associated Legendre functions $P_n^m(x)$ for integer values of $m, n = 0, 1, 2, \dots, 25$ are presented in tabular form together with two cross-referenced listings of the zeroes for these functions rounded to five decimal places. The unfactored coefficients and the integer coefficients are presented in adjacent columns for each function. The greatest common factor and divisor have been removed and listed separately for the integer coefficients.					
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COEFFICIENTS OF ASSOCIATED LEGENDRE FUNCTIONS

A large class of physical problems involving arbitrary data over spheroidal surfaces requires periodic integrals that satisfy Laplace's differential equation and also have the capacity for giving the solution at every point in space. The associated Legendre functions can often meet this requirement because they are orthogonal spherical surface harmonics and, therefore, appear as angular solutions to many potential and allied problems for spheroidal bodies, including the triaxial ellipsoid. A special feature is their flexibility toward fulfilling such surface boundary conditions as a space between two concentric spheres or two coaxial cones, sections cut out of spherical surfaces by two diametral planes, or free vibrations of a spherical surface layer of air bounded by a circle.

These linearly independent solutions arise from Legendre's associated differential equation which, morphologically, is a specialization of Riemann's general second order equation

$$\frac{d^2u}{dz^2} + \left[\frac{1-\alpha-\alpha'}{z-a} + \frac{1-\beta-\beta'}{z-b} + \frac{1-\gamma-\gamma'}{z-c} \right] \frac{du}{dz} + \left[\frac{\alpha\alpha'(a-b)(a-c)}{z-a} + \frac{\beta\beta'(b-c)(b-a)}{z-b} + \frac{\gamma\gamma'(c-a)(c-b)}{z-c} \right] \frac{u}{(z-a)(z-b)(z-c)} = 0$$

with singular coefficients at $z = a, b, c$ subject to the condition that $\alpha + \alpha' + \beta + \beta' + \gamma + \gamma' = 1$, and denoted by the scheme

$$u = P \begin{Bmatrix} a & b & c \\ \alpha & \beta & \gamma & z \\ \alpha' & \beta' & \gamma' \end{Bmatrix} .$$

The special case

$$u = P \left\{ \begin{matrix} 0 & \infty & 1 \\ -\frac{1}{2}\nu & \frac{1}{2}\mu & 0 \\ \frac{1}{2}\nu + \frac{1}{2} & -\frac{1}{2}\mu & \frac{1}{2} \end{matrix} \quad \frac{1}{1-z^2} \right\}$$

defines Legendre's differential equation

$$(1-z^2) \frac{d^2 u}{dz^2} - 2z \frac{du}{dz} + \left[\nu(\nu+1) - \frac{\mu^2}{1-z^2} \right] u = 0$$

with solution singularities at $z = \pm 1, \infty$ as ordinary branch points. When μ and ν are integers and z is real, the equation takes the form

$$(1-x^2) \frac{d^2 u}{dx^2} - 2x \frac{du}{dx} + \left[n(n+1) - \frac{m^2}{1-x^2} \right] u = 0$$

with no structural change for $m = -m$. Thus, two pairs of linearly independent solutions are possible, denoted symbolically by $P_n^m(x)$, $Q_n^m(x)$ and $P_n^{-m}(x)$, $Q_n^{-m}(x)$. The first pair is called associated Legendre functions of the first and second kinds, respectively, of order m and degree n . The second pair is related to the first by the formulas

$$P_n^{-m}(x) = \frac{(n-m)!}{(n+m)!} P_n^m(x)$$

$$Q_n^{-m}(x) = \frac{(n-m)!}{(n+m)!} Q_n^m(x) \quad .$$

The solution $P_n^m(x)$ for positive m, n is of special interest and is the subject of this report. It has a power series expansion of the form

$$P_n^m(x) = \frac{(2n)!}{2^n n! (n-m)!} (1-x^2)^{m/2} \left[x^{n-m} - \frac{(n-m)(n-m-1)}{2(2n-1)} x^{n-m-2} \right. \\ \left. + \frac{(n-m)(n-m-1)(n-m-2)(n-m-3)}{2 \cdot 4 \cdot (2n-1)(2n-3)} x^{n-m-4} \pm \dots \right] \text{ for } m \leq n$$

which terminates as a finite polynomial with $n-m$ real, unrepeated symmetrically located zeroes in the interval $-1 < x < 1$.

Because $P_n^m(x)$, $P_n^{-m}(x)$ share the same zeroes, they can be made to vanish simultaneously for certain n, x combinations compatible with arbitrary surface boundary conditions. Sometimes they occur together in the form $A_n P_n^m(x) + B_n P_n^{-m}(x)$. For a boundary x_0 and fixed m , an n can be found that will make this term zero.

Coefficients for $P_n^m(x)$ are presented as Table 1, followed by two cross-referenced listings of zeroes (Tables 2 and 3) giving information concerning the nature and distribution of the roots. The Legendre polynomials yield root pairs of equal and opposite sign except for zero roots which occur singly. The first listing has only the positive and zero members in the interval $0 \leq x < 1$; the second is restricted to the positive nonzero members only in the interval $0 < x < 1$.

TABLE 1. ASSOCIATED LEGENDRE FUNCTIONS

The coefficients for the explicit forms of the associated Legendre functions $P_n^m(x)$ for integer values of $m, n = 0, 1, \dots, 25$ are given in table form.

The recurrence relations were derived from the formula

$$P_{n+2}^m(x) = \frac{1}{n-m+2} \left[(2n+3)x P_{n+1}^m(x) - (n+m+1)P_n^m(x) \right] \quad \text{with the}$$

help of the definition $P_n^m(x) = (1-x^2)^{\frac{m}{2}} \frac{d^m}{dx^m} \left[\frac{(x^2-1)^n}{2^n n!} \right]$.

The factor $(1-x^2)^{\frac{1}{2}}$ has been omitted for m odd. For example,

the table for $P_5^3(x)$ reads

P_5^3			Numerator	105
			Denominator	2
k	a_k	b_k		
0	-52.5	-1		
2	525.	10		
4	-472.5	-9		

The function is $P_5^3(x) = (-52.5 + 525x^2 - 472.5x^4)(1-x^2)^{\frac{1}{2}}$ or

$$P_5^3(x) = \frac{105}{2}(-1 + 10x^2 - 9x^4)(1-x^2)^{\frac{1}{2}} \quad \text{where the } \mathbf{k} \text{ column gives}$$

the power of \mathbf{x} , the \mathbf{a}_k column gives the unfactored coefficients,

and the \mathbf{b}_k column gives the integer coefficients, the greatest

common divisor (called Denominator) and the greatest common

factor (called Numerator) having been taken out. The highest

common factor here is $\frac{105}{2}$.

TABLE 1 (Continued)

P_0^0	k	a_k	b_k	P_1^0	k	a_k	b_k	P_2^0	k	a_k	b_k	P_3^0	k	a_k	b_k	P_4^0	k	a_k	b_k	P_5^0	k	a_k	b_k	P_6^0	k	a_k	b_k	P_7^0	k	a_k	b_k	P_8^0	k	a_k	b_k	P_9^0	k	a_k	b_k	P_{10}^0	k	a_k	b_k	P_{11}^0	k	a_k	b_k	P_{12}^0	k	a_k	b_k	P_{13}^0	k	a_k	b_k	P_{14}^0	k	a_k	b_k	P_{15}^0	k	a_k	b_k	P_{16}^0	k	a_k	b_k	P_{17}^0	k	a_k	b_k	P_{18}^0	k	a_k	b_k	P_{19}^0	k	a_k	b_k	P_{20}^0	k	a_k	b_k	P_{21}^0	k	a_k	b_k	P_{22}^0	k	a_k	b_k	P_{23}^0	k	a_k	b_k	P_{24}^0	k	a_k	b_k	P_{25}^0	k	a_k	b_k	P_{26}^0	k	a_k	b_k	P_{27}^0	k	a_k	b_k	P_{28}^0	k	a_k	b_k	P_{29}^0	k	a_k	b_k	P_{30}^0	k	a_k	b_k	P_{31}^0	k	a_k	b_k	P_{32}^0	k	a_k	b_k	P_{33}^0	k	a_k	b_k	P_{34}^0	k	a_k	b_k	P_{35}^0	k	a_k	b_k	P_{36}^0	k	a_k	b_k	P_{37}^0	k	a_k	b_k	P_{38}^0	k	a_k	b_k	P_{39}^0	k	a_k	b_k	P_{40}^0	k	a_k	b_k	P_{41}^0	k	a_k	b_k	P_{42}^0	k	a_k	b_k	P_{43}^0	k	a_k	b_k	P_{44}^0	k	a_k	b_k	P_{45}^0	k	a_k	b_k	P_{46}^0	k	a_k	b_k	P_{47}^0	k	a_k	b_k	P_{48}^0	k	a_k	b_k	P_{49}^0	k	a_k	b_k	P_{50}^0	k	a_k	b_k	P_{51}^0	k	a_k	b_k	P_{52}^0	k	a_k	b_k	P_{53}^0	k	a_k	b_k	P_{54}^0	k	a_k	b_k	P_{55}^0	k	a_k	b_k	P_{56}^0	k	a_k	b_k	P_{57}^0	k	a_k	b_k	P_{58}^0	k	a_k	b_k	P_{59}^0	k	a_k	b_k	P_{60}^0	k	a_k	b_k	P_{61}^0	k	a_k	b_k	P_{62}^0	k	a_k	b_k	P_{63}^0	k	a_k	b_k	P_{64}^0	k	a_k	b_k	P_{65}^0	k	a_k	b_k	P_{66}^0	k	a_k	b_k	P_{67}^0	k	a_k	b_k	P_{68}^0	k	a_k	b_k	P_{69}^0	k	a_k	b_k	P_{70}^0	k	a_k	b_k	P_{71}^0	k	a_k	b_k	P_{72}^0	k	a_k	b_k	P_{73}^0	k	a_k	b_k	P_{74}^0	k	a_k	b_k	P_{75}^0	k	a_k	b_k	P_{76}^0	k	a_k	b_k	P_{77}^0	k	a_k	b_k	P_{78}^0	k	a_k	b_k	P_{79}^0	k	a_k	b_k	P_{80}^0	k	a_k	b_k	P_{81}^0	k	a_k	b_k	P_{82}^0	k	a_k	b_k	P_{83}^0	k	a_k	b_k	P_{84}^0	k	a_k	b_k	P_{85}^0	k	a_k	b_k	P_{86}^0	k	a_k	b_k	P_{87}^0	k	a_k	b_k	P_{88}^0	k	a_k	b_k	P_{89}^0	k	a_k	b_k	P_{90}^0	k	a_k	b_k	P_{91}^0	k	a_k	b_k	P_{92}^0	k	a_k	b_k	P_{93}^0	k	a_k	b_k	P_{94}^0	k	a_k	b_k	P_{95}^0	k	a_k	b_k	P_{96}^0	k	a_k	b_k	P_{97}^0	k	a_k	b_k	P_{98}^0	k	a_k	b_k	P_{99}^0	k	a_k	b_k																																																																																																																																																																																																																				
1	0	1.	1	1	0	-0.5	-1	0	2	1	1	1	0	-0.5	-1	0	2	1	1	1	0	2	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	2	1	1	1	0	

TABLE 1 (Continued)

P_1^1	Numerator Denominator	1	P_2^1	Numerator Denominator	3	P_3^1	Numerator Denominator	3	P_4^1	Numerator Denominator	5	P_5^1	Numerator Denominator	15	P_6^1	Numerator Denominator	21
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k	k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
0	1.	1	1	3.	1	0	-1.5	-1	1	-7.5	-3	0	1.875	1	1	13.125	5
						2	7.5	5	3	1.5	7	2	-26.25	-14	3	-78.75	-30
												4	39.375	21	5	86.625	33

P_7^1	Numerator Denominator	7	P_8^1	Numerator Denominator	9	P_9^1	Numerator Denominator	45	P_{10}^1	Numerator Denominator	55	P_{11}^1	Numerator Denominator	33
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
0	-2.1875	-5	0	-19.6875	-35	0	2.46093 75	7	1	27.07031 25	63	0	-2.70703 125	-21
2	52.0625	135	2	216.5625	385	2	-108.28125	-308	3	-469.21875	-1 092	4	175.45703 125	1 365
4	-216.5625	-495	4	-583.0625	-1 001	4	703.2812 5	2 002	5	2 111.48437 5	4 914	6	-1 755.2703 25	-13 650
6	187.6875	429	6	402.1875	715	6	-1 407.55625	-4 004	7	-3 418.59375	-7 956	8	5 982.5906 25	46 410
							854.64843 75	2 431	9	1 804.25781 25	4 199	10	-8 119.16015 625	-62 985
													3 788.94140 625	29 393

P_{12}^1	Numerator Denominator	39	P_{13}^1	Numerator Denominator	91	P_{14}^1	Numerator Denominator	105	P_{15}^1	Numerator Denominator	15
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
1	-35.19140 625	-231	0	2.93261 71875	33	1	43.98925 78125	429	0	-3.14208 98437 5	-429
3	879.7815 625	5 775	2	-263.93554 6875	-2 970	3	-1 495.63476 5625	-14 586	2	373.90869 14062 5	51 051
5	-5 982.5306 25	-39 270	4	3 739.08691 40625	42 075	5	14 208.53027 34375	138 567	4	-7 104.26513 67187 5	-69 789
7	16 238.32031 25	106 590	6	-18 944.70703 125	-213 180	7	-56 834.12109 375	-554 268	6	49 728.8535 70312 5	789 789
9	-18 944.70703 125	-124 355	8	42 625.59082 03125	479 655	9	108 932.06542 96875	1 062 347	8	-163 398.02814 45187 5	-22 369 283
11	7 922.33203 125	52 003	10	-43 572.82617 1875	-490 314	11	-99 029.15038 0625	-965 770	10	272 350.15837 86062 5	37 182 146
			12	16 504.85839 84375	185 725	13	34 279.32128 90625	334 305	12	-472 315.5837 86062 5	-30 431 752
									14	71 007.16552 73437 5	9 694 845

P_{16}^1	Numerator Denominator	17	P_{17}^1	Numerator Denominator	153	P_{18}^1	Numerator Denominator	171
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
1	-53.41652 73437 5	-6 435	0	3.3947 04589 84375	715	1	63.43093 87207 03125	12 155
3	899.08937 67187 5	985 285	2	-507.44750 97656 25	-108 680	3	-3 552.13256 83593 75	-680 680
5	-29 388.70811 45312 5	-3 592 595	4	12 432.46398 92578 125	2 662 660	5	57 189.33435 05859 375	10 958 948
7	163 388.70811 45312 5	19 684 665	6	-114 378.66870 11718 75	-24 496 472	7	-408 495.24536 13281 25	-78 278 200
9	-428 881.60595 70312 5	-64 678 625	8					

7

[illegible]

TABLE 1 (Continued)

P_1^2		Numerator Denominator 15		P_2^2		Numerator Denominator 105		P_3^2		Numerator Denominator 105		P_4^2		Numerator Denominator 8	
k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k
0	3.	1	15.	0	-7.5	1	-52.5	0	-249.375	1	13.125	0	-984.375	1	118.125
2	-3.	3	-15.	2	60.	3	210.	2	669.375	4	-249.375	3	1954.375	3	-125
				4	-52.5	5	-157.5	4	-433.125	6	-433.125	5	-1126.125	5	-143

P_5^2		Numerator Denominator 495		P_6^2		Numerator Denominator 128		P_7^2		Numerator Denominator 3003	
k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k
0	-19.6875	1	-216.5625	0	0	27.0703125	7	1	351.9140625	21	-441
2	682.375	3	3031.875	2	-1	434.7265625	25	3	-7390.1953125	25	2.562
4	-3448.625	5	-11261.25	4	4	11965.078125	3	0.944	42.933.515625	2	-6.018
6	5638.625	7	15283.125	6	-34.487	578125	5	-8.918	-100.848.515625	3	6.137
8	-2815.3125	8	-6837.1875	8	40.168	4765625	25	0.387	102.842.6953125	5	-2.261
				10	-16.238	3203125	25	-4.199	-37.889.4140625	5	

P_9^2		Numerator Denominator 1365		P_{10}^2		Numerator Denominator 1024		P_{11}^2		Numerator Denominator 128		P_{12}^2		Numerator Denominator 2048		
k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	
1	-527.87109375	0	-99	0	43.9892578125	33	1	74.7.8173828125	1	351.9140625	21	-441	0	-35.19140625	21	-3
2	15484.21875	2	904	2	-4530.8935546875	399	3	-29.164.8779296875	3	-7390.1953125	25	2.562	4	2.552.05078125	25	228
3	-128.624.56894	4	-24.123	4	75.529.5556640625	56	61	126.796.9208984375	5	42.933.515625	2	-6.018	6	143.580.9375	2	-2775
5	454.672.98978	6	85.272	6	-468.881.4990234375	-351	747	4.030.582.4208984375	7	-100.848.515625	3	6.137	8	-284.170.60546875	3	-12.240
7	-776.722.8655	8	-145.673	8	1378.227.4365234375	1033	243	-5.387.088.6865890625	9	102.882.578125	5	-2.261	10	257.648.015625	5	-21.964
9	633.788.3655	10	-118.864	10	-2069.709.2431640625	1552	85	3.667.887.3779296875	11	-37.889.4140625	5		12	-87.145.65234375	5	-7.429
11	-198.056.30078125	12	-37.145	12	1534.951.8310546875	1331	305	-994.100.3173828125	12	-16.238.3203125	25		14	-87.145.65234375	5	-7.429
				14	-4445.631.1767578125	-334	305									

P_{13}^2		Numerator Denominator 1365		P_{14}^2		Numerator Denominator 1024		P_{15}^2		Numerator Denominator 1024		P_{16}^2		Numerator Denominator 1024		
k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	
1	-527.87109375	0	-99	0	43.9892578125	33	1	74.7.8173828125	1	351.9140625	21	-441	0	-35.19140625	21	-3
2	15484.21875	2	904	2	-4530.8935546875	399	3	-29.164.8779296875	3	-7390.1953125	25	2.562	4	2.552.05078125	25	228
3	-128.624.56894	4	-24.123	4	75.529.5556640625	56	61	126.796.9208984375	5	42.933.515625	2	-6.018	6	143.580.9375	2	-2775
5	454.672.98978	6	85.272	6	-468.881.4990234375	-351	747	4.030.582.4208984375	7	-100.848.515625	3	6.137	8	-284.170.60546875	3	-12.240
7	-776.722.8655	8	-145.673	8	1378.227.4365234375	1033	243	-5.387.088.6865890625	9	102.882.578125	5	-2.261	10	257.648.015625	5	-21.964
9	633.788.3655	10	-118.864	10	-2069.709.2431640625	1552	85	3.667.887.3779296875	11	-37.889.4140625	5		12	-87.145.65234375	5	-7.429
11	-198.056.30078125	12	-37.145	12	1534.951.8310546875	1331	305	-994.100.3173828125	12	-16.238.3203125	25		14	-87.145.65234375	5	-7.429
				14	-4445.631.1767578125	-334	305									

P_{17}^2		Numerator Denominator 2907		P_{18}^2		Numerator Denominator 32768		P_{19}^2		Numerator Denominator 32768		P_{20}^2		Numerator Denominator 5985		
k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	
1	-1014.89501953125	0	-715	0	63.438928720703125	143	1	332.049713134765625	1	332.049713134765625	1	332.049713134765625	1	332.049713134765625	1	332.049713134765625
3	50744.7509765625	2	35750	2	-10719.8284580078125	-24.167	3	-83.031.098785400390625	3	-83.031.098785400390625	3	-83.031.098785400390625	3	-83.031.098785400390625	3	-83.031.098785400390625
5	-736.001.6881640625	4	-518.518	4	296.603.089580078125	668.668	5	-12.459.104.9835205078125	5	-12.459.104.9835205078125	5	-12.459.104.9835205078125	5	-12.459.104.9835205078125	5	-12.459.104.9835205078125
7	4771.224.4658203125	6	361.358	6	-3145.413.3684742109375	-7.091.084	7	55.453.229.5578009296875	7	55.453.229.5578009296875	7	55.453.229.5578009296875	7	55.453.229.5578009296875	7	55.453.229.5578009296875
9	-16.339.809.814453125	8	-11.511.500	8	16.946.800.87738037109375	-111.201.090	9	-144.579.464.9093627328125	9	-144.579.464.9093627328125	9	-144.579.464.9093627328125	9	-144.579.464.9093627328125	9	-144.579.464.9093627328125
11	31.639.813.5496046875	10	22.290.450	10	-82.623.989.8345947265625	193.016.460	11	227.276.185.0616435040625	11	227.276.185.0616435040625	11	227.276.185.0616435040625	11	227.276.185.0616435040625	11	227.276.185.0616435040625
13	-34.793.511.1083984375	12	-24.512.130	12	82.393.968.6553955078125	-194.777.340	13	-211.867.630.1727616640625	13	-211.867.630.1727616640625	13	-211.867.630.1727616640625	13	-211.867.630.1727616640625	13	-211.867.630.1727616640625
15	20.251.243.6083984375	14	14.671.130	14	-106.513.546.674346923828125	105.762.855	15	107.803.235.1727616640625	15	107.803.235.1727616640625	15	107.803.235.1727616640625	15	107.803.235.1727616640625	15	107.803.235.1727616640625
17	-4.842.688.68836484375	16	-3.411.705	16	-10.593.381.507110595703125	-23.881.935	17	-23.056.183.280181884765625	17	-23.056.183.280181884765625	17	-23.056.183.280181884765625	17	-23.056.183.280181884765625	17	-23.056.183.280181884765625

TABLE 1 (Continued)

P_{21}^2	k	a_k	b_k	Numerator	Denominator
	1	-1	-1	702 06352	23388 67187 5
	3	129	356 82769	77539 0625	319 124
	5	-2	884 997 67036	43758 82812 5	-7 117 305
	7	25	411 657 66601	5625	72 558 720
	9	-164	368 274 35226	44042 96875	-405 497 430
	11	550	855 818 36975	09765 625	1 358 964 360
	13	-1	154 678 584 27505	49316 40625	-2 848 598 370
	15	1	525 446 937 02392	57812 5	3 763 285 920
	17	-1	233 505 805 48973	08349 60937 5	-3 043 065 555
	19	557	393 343 15548	48632 8125	1 375 092 820
	21	-107	797 769 19593	81103 51562 5	-265 937 685
P_{22}^2	k	a_k	b_k	Numerator	Denominator
	1	2	127 57940	29235 83984 375	29 393
	3	-193	609 72596	06513 37890 825	-2 677 323
	5	189	166 14172	65319 84231 875	71 689 427
	7	-47	717 277 21590	28292 84943 25	-884 422 773
	9	1	824 109 964 55980	01098 53281 25	6 047 391 402
	11	-4	875 603 838 64765	16723 63281 25	-25 208 788 878
	13	8	522 023 767 84725	18920 86843 75	67 357 591 182
	15	-9	703 771 138 04655	07507 32421 875	-117 775 168 938
	17	9	703 771 138 04655	07507 32421 875	134 059 835 637
	19	-6	926 006 670 83902	35900 87890 625	-95 684 379 063
	21	2	814 91 760 07966	99523 92578 125	38 880 089 547
	23	-496	639 722 36700	05798 33584 375	-6 861 192 273
P_{23}^2	k	a_k	b_k	Numerator	Denominator
	1	-2	611 12017	63153 07617 1875	-156 009
	3	280	260 23225	78430 17578 125	16 744 966
	5	-8	884 771 58660	8867 1875	-530 846 674
	7	130	336 426 04284	28659 90234 375	7 787 330 386
	9	-1	088 512 072 76532	49959 48242 1875	-53 841 816 089
	11	17	835 277 767 02068	75235 10537 25	322 253 884 876
	13	-36	438 257 917 43152	31323 24318 5	-1 165 544 976 024
	15	59	140 551 125 12154	57916 25976 5625	3 533 524 930 829
	17	-59	100 176 961 67306	96002 44140 625	-3 531 109 671 156
	19	37	744 618 899 89204	40673 82812 5	-2 255 162 479 064
	21	-37	744 618 899 89204	40673 82812 5	832 374 043 786
	23	13	931 431 263 39368	82019 04296 875	-135 054 066 707
	25	-2	260 357 787 76917	45758 05664 0625	
P_{24}^2	k	a_k	b_k	Numerator	Denominator
	0	-96	70815 46783	44786 5625	-2 281
	2	28	819 83095	71069 35263 725	673 778
	4	-1	146 997 86328	19263 725	-33 128 172
	6	27	709 972 26031	30865 8647 8125	336 150 436
	8	-268	978 31364 42593	14406 25	-6 295 683 737
	10	1	783 982 302 186238	52339 0625	36 681 584 148
	12	-15	012 395 388 53074	04663 0625 725	-135 227 407 392
	14	22	610 910 740 58337	21160 86657 1675	327 604 452 908
	16	-24	085 851 972 99318	31359 85338 125	-528 934 522 647
	18	26	223 564 263 98608	56079 10156 25	562 650 457 178
	20	-16	275 720 128 09209	82360 83984 375	-379 300 783 092
	22	6	275 720 128 09209	82360 83984 375	146 723 957 838
	24	-1	061 003 043 23859	21478 27148 4375	-24 805
P_{25}^2	k	a_k	b_k	Numerator	Denominator
	1	-2	611 12017	63153 07617 1875	-156 009
	3	280	260 23225	78430 17578 125	16 744 966
	5	-8	884 771 58660	8867 1875	-530 846 674
	7	130	336 426 04284	28659 90234 375	7 787 330 386
	9	-1	088 512 072 76532	49959 48242 1875	-53 841 816 089
	11	17	835 277 767 02068	75235 10537 25	322 253 884 876
	13	-36	438 257 917 43152	31323 24318 5	-1 165 544 976 024
	15	59	140 551 125 12154	57916 25976 5625	3 533 524 930 829
	17	-59	100 176 961 67306	96002 44140 625	-3 531 109 671 156
	19	37	744 618 899 89204	40673 82812 5	-2 255 162 479 064
	21	-37	744 618 899 89204	40673 82812 5	832 374 043 786
	23	13	931 431 263 39368	82019 04296 875	-135 054 066 707
	25	-2	260 357 787 76917	45758 05664 0625	
P_{26}^2	k	a_k	b_k	Numerator	Denominator
	0	-21	360 89220	53527 83203 125	4 199
	2	882	945 45221	32873 53515 875	-1 053 949
	4	-14	188 827 03809	72815 83239 725	43 664 636
	6	116	612 852 36437	28637 69231 25	-700 078 216
	8	-157	741 579 08887	48168 94231 25	5 753 679 760
	10	1	573 732 24929	04663 08593 75	-27 519 028 290
	12	-1	573 732 24929	04663 08593 75	81 877 602 690
	14	3	870 556 768 16053	39050 29296 875	-156 150 231 750
	16	-2	934 859 986 70648	57482 91015 625	190 973 693 475
	18	1	255 842 011 13267	89855 95703 125	-144 806 312 625
	20	-231	765 203 77126	69372 55859 375	61 963 480 605
	22				-11 435 320 455
P_{27}^2	k	a_k	b_k	Numerator	Denominator
	0	-74	00276 18408	20312 5	-221
	2	15	392 57446	28906 25	45 968
	4	-525	837 62840	27099 60937 5	-1 570 647
	6	6	944 419 17114	25781 25	28 638 440
	8	-46	415 272 25418	09082 031 25	-138 642 200
	10	177	695 431 73217	77343 75	533 792 590
	12	-473	141 878 77731	32324 21875	-1 323 792 590
	14	593	229 864 39819	33592 5	1 271 605 360
	16	-513	779 003 08486	36116 01562 5	-1 234 336 785
	18	245	932 621 95577	36316	734 447 040
	20	-49	955 083 77372	74169 92187 5	-149 184 555
P_{28}^2	k	a_k	b_k	Numerator	Denominator
	0	-21	360 89220	53527 83203 125	4 199
	2	882	945 45221	32873 53515 875	-1 053 949
	4	-14	188 827 03809	72815 83239 725	43 664 636
	6	116	612 852 36437	28637 69231 25	-700 078 216
	8	-157	741 579 08887	48168 94231 25	5 753 679 760
	10	1	573 732 24929	04663 08593 75	-27 519 028 290
	12	-1	573 732 24929	04663 08593 75	81 877 602 690
	14	3	870 556 768 16053	39050 29296 875	-156 150 231 750
	16	-2	934 859 986 70648	57482 91015 625	190 973 693 475
	18	1	255 842 011 13267	89855 95703 125	-144 806 312 625
	20	-231	765 203 77126	69372 55859 375	61 963 480 605
	22				-11 435 320 455

TABLE 1 (Continued)

P_3^{15}		P_4^{105}		P_5^{105}		P_6^{315}		P_7^{315}		P_8^{465}	
k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k
0	15	1	105	0	-52.5	1	-472.5	0	118.125	1	129.375
2	-15	3	-105	2	52.5	3	2205	2	-2716.875	3	-1260.625
				4	-72.5	5	-1732.5	4	8229.375	5	28153.125
								6	-5630.625	7	-16891.875
P_9^{3465}		P_{10}^{6435}		P_{11}^{6435}		P_{12}^{45045}		P_{13}^{45045}		P_{14}^{15015}	
k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k
0	-216.5625	1	-2815.3125	0	351.9140625	0	-21466.7578125	0	118.125	0	129.375
2	8662.5	3	45045.625	2	-21466.7578125	2	200591.015625	2	-2716.875	2	-1260.625
4	-50675.625	5	-185810.625	4	-634149.140625	4	-634149.140625	4	8229.375	4	28153.125
6	90090	7	273487.5	6	-795677.953125	6	-795677.953125	6	-5630.625	7	-16891.875
8	-47860.3125	9	-129906.5625	10	-341004.7265625	10	-341004.7265625				
P_{15}^{15015}		P_{16}^{14535}		P_{17}^{14535}		P_{18}^{101745}		P_{19}^{101745}		$P_{20}^{1119195}$	
k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k
0	-527.87109375	1	-8973.80859375	0	747.8173828125	0	-85949.99002	0	14208.5302734375	0	14208.5302734375
2	45396.9140625	3	293144.4140625	2	-293144.4140625	2	1577166.8603215625	2	-395478.3935546875	2	-395478.3935546875
4	-613210.25390625	5	-2671203.69140625	4	10230141.796875	4	-10230141.796875	4	106208763.7939453125	4	106208763.7939453125
6	2955374.296875	7	10230141.796875	6	-33660372.3876953125	6	-33660372.3876953125	6	-151068968.9208984375	6	-151068968.9208984375
8	-6308587.14140625	9	-18736315.25390625	8	53921372.3876953125	8	53921372.3876953125	8	108356934.55947265625	8	108356934.55947265625
10	6100195.6640625	11	16240780.6640625	10	-42334961.7919921875	10	-42334961.7919921875	10	-30817109.8388671875	10	-30817109.8388671875
12	-2178641.30859375	13	-5347574.12109375	12	-12923304.1259765625	12	-12923304.1259765625	12		12	
P_{21}^{14535}		P_{22}^{14535}		P_{23}^{101745}		P_{24}^{101745}		$P_{25}^{1119195}$		$P_{26}^{1119195}$	
k	a_k	k	a_k	k	a_k	k	a_k	k	a_k	k	a_k
0	-1014.89501953125	1	-143	0	-21312.79541015625	0	-85949.99002	0	14208.5302734375	0	14208.5302734375
2	150204.462890625	3	21164	2	1165099.482421875	2	1577166.8603215625	2	-395478.3935546875	2	-395478.3935546875
4	-3580549.67890625	5	-504504	4	-18300582.9921875	4	-10230141.796875	4	106208763.7939453125	4	106208763.7939453125
6	32026027.236328125	7	4512508	6	17450516.552734375	6	-33660372.3876953125	6	-151068968.9208984375	6	-151068968.9208984375
8	-136888383.422615625	9	-19589550	8	-465684579.7119140625	8	53921372.3876953125	8	108356934.55947265625	8	108356934.55947265625
10	323528234.326171875	11	4558540	10	958324265.322285625	10	-42334961.7919921875	10	-30817109.8388671875	10	-30817109.8388671875
12	-413545732.03125	13	-5825920	12	-1109415954.19921875	12	-12923304.1259765625	12		12	
14	272951544.287109375	15	38459220	14	-577976416.455078125	14	-12923304.1259765625	14		14	
16	-72640330.33447265625	17	-10235115	16	-169794104.11376953125	16	-12923304.1259765625	16		16	

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE 1 (Continued)

P_{20}^2		Numerator		Denominator		Numerator		Denominator	
k		1		514 205		504 735		65 536	
k		32 768		a_k		b_k		c_k	
1	1	30	637.14340	20996	09375	663	-221	-1	702.06352
3	3	-2	073 113.37020	87402	34375	-444 883	49 846	-14	666.35604
5	5	40	645 276.81745	21468	875	875 700	-1	169 678.83347	85839 84375
7	7	-358	454 577.80458	74238	875	-7 723 700	03 725	200 366 917.84973	10993 35937 5
9	9	1 696	591 273.04368	74238	875	36 723 170	1453	-486 003 859.8972	63153 15375
11	11	-7 982	274 283.70488	12035	815	-101 322 390	5375	-5 782 386 393.88728	52527 84575
13	13	7 784	325 163.70488	60516	875	167 807 340	12	-14 188 237 838.05108	12507 15375
15	15	-7 534	325 163.70488	60516	875	-164 139 420	14	-21 188 237 838.05108	12507 15375
17	17	4 534	831 074.03182	98338	84375	87 315 375	18	-3 691 268 172.15311	88964 84375
19	19	-899	131 147.32109	35038	59375	-19 458 855	20	-2 048 157 614.72281	40966 75687 5
P_{22}^2		Numerator		Denominator		Numerator		Denominator	
k		132 825		65 536		726 725		262 144	
k		a_k		b_k		c_k		d_k	
1	1	-42	551.58805	84716	79687 5	-20 995	323	2 127.57940	29235 83984 375
3	3	489	230.22079	46777	34375	1 721 590	-87 523	-576 574.01819	22312 59765 625
5	5	-83	409 622.91221	61865	23437 5	-41 154 399	3 880 845	25 562 866.52612	68615 72265 625
7	7	906	246 701.83410	64453	125	447 143 112	-66 515 067	-38 130 298.86445	07263 18359 375
9	9	-370	844 424.10507	20214	84375	-2 649 980 502	560 173 246	3 821 562 822.85929	36157 69531 25
11	11	19 004	526 423.75640	86914	0625	9 376 854 084	-2 593 239 006	-60 490 556 750.87827	91137 69531 25
13	13	-41 896	823 860.62240	60058	59375	-20 671 938 630	14 218 45	-121 016 141 591.85466	76835 14218 45
15	15	58 009	357 132.93762	20703	125	28 621 880 136	-18 127 012 740	124 773 276 236.8896	95868 14218 45
17	17	-19 005	917 562.02659	60693	35937 5	-24 179 573 223	16 528 12	-122 727 817 828.873	97268 14218 45
19	19	23 068	722 607.93075	56152	34375	11 382 132 918	-8 568 616 379	54 464 822 866.7473	07268 14218 45
21	21	-4 635	304 075.42533	87451	17187 5	-2 287 064 091	-1 583 352 063	-10 429 734 165.70701	21745 13671 875
P_{24}^2		Numerator		Denominator		Numerator		Denominator	
k		2 220 075		262 144		412 775		524 288	
k		a_k		b_k		c_k		d_k	
1	1	57	444.64387	89367	67578 125	-2 611.12017	369	-2 611.12017	63153 07617 1875
3	3	-5 610	426.88550	94909	66796 875	835 558.45642	-310 380	835 558.45642	08984 375
5	5	160	481 186.78312	30165	57421 875	-3 868 458.45642	16 788	-3 868 458.45642	13781 74628 125
7	7	-2 102	557 061.63454	05578	61328 125	895 140 374.35084	-376 288	895 140 374.35084	53369 14062 5
9	9	12 202	837 467.86518	09692	38281 25	-9 373 156 374.35084	33605 81289 0625	-9 373 156 374.35084	33605 81289 0625
11	11	-187	256 844 912.47419	64721	67368 75	57 564 435 109.8897	8125	57 564 435 109.8897	70507 8125
13	13	187	256 844 912.47419	64721	67368 75	-222 924 472 090.25629	12687 75	-222 924 472 090.25629	85276 12687 75
15	15	-307	226 355.88722	28352	14843 75	553 591 332 046.4181	3125	553 591 332 046.4181	51835 3125
17	17	407	073 352.86728	93759	87456 25	-953 611 349 951.87722	1855	-953 611 349 951.87722	38867 1855
19	19	-307	453 550 921.10335	31189	67680 375	740 489 826 042.87280	125	740 489 826 042.87280	15374 70703 125
21	21	177	632 408 648.31312	90173	59884 375	-237 080 522 104.85380	110 248 217 720	-237 080 522 104.85380	15374 70703 125
23	23	-133	342 066 951.24902	74521	57265 625	-51 989 149 108.69101	30273 4375	-51 989 149 108.69101	52435 30273 4375

TABLE 1 (Continued)

P_1^4	$\frac{\text{Numerator}}{\text{Denominator}}$	105	$\frac{\text{Numerator}}{\text{Denominator}}$	945	$\frac{\text{Numerator}}{\text{Denominator}}$	3 465	$\frac{\text{Numerator}}{\text{Denominator}}$	10 395	$\frac{\text{Numerator}}{\text{Denominator}}$	135 135
k	α_k	b_k	α_k	b_k	α_k	b_k	α_k	b_k	α_k	b_k
0	105	1	0	-472.5	1	-5 197.5	0	1 399.375	1	16 891.875
2	-210	-2	2	6 142.5	3	-30 317.5	4	36 372.5	3	-20 701.5
4	105	1	4	-10 867.5	-23	30 317.5	6	-153 702.5	7	641 891.5
			6	5 197.5	13	22 522.5	8	-282 702.5	9	-743 242.5
								-84 455.375		-207 161.875
										17

P_1^5	$\frac{\text{Numerator}}{\text{Denominator}}$	45 045	$\frac{\text{Numerator}}{\text{Denominator}}$	945	$\frac{\text{Numerator}}{\text{Denominator}}$	3 465	$\frac{\text{Numerator}}{\text{Denominator}}$	10 395	$\frac{\text{Numerator}}{\text{Denominator}}$	135 135
k	α_k	b_k	α_k	b_k	α_k	b_k	α_k	b_k	α_k	b_k
0	-2 815.3125	-1	0	-472.5	1	-5 197.5	0	1 399.375	1	16 891.875
2	332 318.6875	-47	2	6 142.5	3	-30 317.5	4	36 372.5	3	-20 701.5
4	-474 088.125	-346	4	-10 867.5	-23	30 317.5	6	-153 702.5	7	641 891.5
6	2 471 884.375	878		1 054	13	22 522.5	8	-282 702.5	9	-743 242.5
8	-2 536 596.5625	-901		-969						-207 161.875
10	999 345.3375	323		323						17

P_1^6	$\frac{\text{Numerator}}{\text{Denominator}}$	2 297 295	$\frac{\text{Numerator}}{\text{Denominator}}$	945	$\frac{\text{Numerator}}{\text{Denominator}}$	3 465	$\frac{\text{Numerator}}{\text{Denominator}}$	10 395	$\frac{\text{Numerator}}{\text{Denominator}}$	135 135	
k	α_k	b_k	α_k	b_k	α_k	b_k	α_k	b_k	α_k	b_k	
0	-8 973.80859 375	-1	1	-170 502.36328 125	1	-5 197.5	0	1 399.375	1	16 891.875	
2	870 459.43359 375	97	3	6 308 587.44140 625	407	3	-30 317.5	4	36 372.5	3	-20 701.5
4	-13 649 162.87109 375	-1 521	5	-67 007 428.76953 125	-4 323	13	22 522.5	6	-153 702.5	7	641 891.5
6	79 624 603.65234 375	8 873	9	311 848 822.44140 625	-20 119	13	22 522.5	8	-282 702.5	9	-743 242.5
8	-219 777 546.26953 125	-24 491	11	741 773 773.18359 375	-47 817	13	22 522.5	12	2 768 260 870.01953 125	13	2 143 140
10	309 802 794.08203 125	34 523	13	939 290 505.60546 875	60 605	16	1 654 182 928.125	14	400 622 427.90527 34375	15	310 155
12	-215 685 489.55078 125	-24 035	15	-604 878.87568359 375	-38 985						
14	58 823 315.33203 125	-6 555		155 079 649.51171 875	10 005						

P_1^7	$\frac{\text{Numerator}}{\text{Denominator}}$	305 235	$\frac{\text{Numerator}}{\text{Denominator}}$	945	$\frac{\text{Numerator}}{\text{Denominator}}$	3 465	$\frac{\text{Numerator}}{\text{Denominator}}$	10 395	$\frac{\text{Numerator}}{\text{Denominator}}$	135 135	
k	α_k	b_k	α_k	b_k	α_k	b_k	α_k	b_k	α_k	b_k	
1	298 378.13574 21875	1 001	0	-21 312.79541 01562 5	-13	2 119	1	1 399.375	1	16 891.875	
3	-14 322 196.21562 5	-48 048	2	3 473 985.65185 54687 5	2 119	13	22 522.5	4	36 372.5	3	-20 701.5
5	199 312 256.97378 125	668 668	4	-92 668 034.44335 9375	-56 574	13	22 522.5	6	-153 702.5	7	6
7	-4 028 612 642.76882 8125	-47 296	6	92 668 034.44335 9375	56 574	13	22 522.5	8	-282 702.5	9	-743 242.5
9	7 550 774 648.08037 5	13 649 320	10	828 413 616.52832 03125	-8 404 890	13	22 522.5	11	45 063 561 487.28027 34375	12	330 460
11	-7 956 778 910.33023 125	-23 231 280	12	-13 779 361 616.52832 03125	8 404 890	13	22 522.5	13	-68 475 618 061.96289 0625	14	3 585 270
13	7 956 778 910.33023 125	23 231 280	14	-23 029 327 952.49023 4375	-14 047 020	15	1 654 182 928.125	15	45 063 561 487.28027 34375	16	4 908 540
15	-4 437 663 816.76887 5	-14 883 440	16	22 373 221 743.01737 8125	13 646 820	17	4 006 622 427.90527 34375	17	-30 339 444 836.36474 60937 5	18	-2 413 815
17	1 016 964 624.68661 71875	3 411 705	18	-11 695 093 183.85009 76562 5	-1 133 555	19	6 271 281 852.20947 26662 5	19	-2 413 815	20	4 998 945

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TABLE 1 (Continued)

P_{20}^4				P_{21}^4				P_{22}^4				P_{23}^4				P_{24}^4												
k		Numerator	Denominator	k		Numerator	Denominator	k		Numerator	Denominator	k		Numerator	Denominator	k		Numerator	Denominator									
0	2	30	637.14340	20996	09375	1	1	1	1	1	1	1	1	1	1	1	1	1										
2	4	-6	188.7029672	41210	9375	3	3	3	3	3	3	3	3	3	3	3	3	3										
4	6	205	299.4979374	94824	21875	5	5	5	5	5	5	5	5	5	5	5	5	5										
6	8	-2	631.11787537231	44531	25	7	7	7	7	7	7	7	7	7	7	7	7	7										
8	10	17	065195246.40350	34179	6875	9	9	9	9	9	9	9	9	9	9	9	9	9										
10	12	-63	383960.49886779	78515	625	11	11	11	11	11	11	11	11	11	11	11	11	11										
12	14	142	947090.05695037	84179	6875	13	13	13	13	13	13	13	13	13	13	13	13	13										
14	16	-199	070825281.62231	44531	25	15	15	15	15	15	15	15	15	15	15	15	15	15										
16	18	167	195340.32672653	19824	21875	17	17	17	17	17	17	17	17	17	17	17	17	17										
18	20	-77	607112.92109222	41210	9375	19	19	19	19	19	19	19	19	19	19	19	19	19										
20		15	286249.514.76058	95996	09375	21	21	21	21	21	21	21	21	21	21	21	21	21										
0	2	-42	551.58805	84716	79687	5	5	1	1	148	892.8757	87353	51562	5	5	1	1	665	894.67248	91662	59765	625						
2	4	-10	432139.07435	56615	23437	5	5	3	3	102	251	168.10450	40940	50682	5	3	3	458	581	543.52283	47778	32031	25					
4	6	-420	337347.78187	56103	51562	5	5	5	5	372	020	526.97978	81040	91187	5	5	5	585	813	947.48573	30322	26562	5					
6	8	6	528835.781.57539	36767	57812	5	5	7	7	-175	073	200	460.2348	65566	14625	5	7	7	631	883	289	344.95153	42712	40234	375			
8	10	-52	828833.326.11818	84199	21875	5	5	9	9	880	405	674	674	674	674	5	9	9	10	147	521	969	548.57139	58740	23437	5		
10	12	26	645701.630.05599	97588	59375	5	5	11	11	-2	299	134	552	395.74813	84277	34375	5	11	11	13	135	609	145	960.21499	63378	90625	5	
12	14	-715	699448.001.85895	62988	28125	5	5	13	13	3	928	566	122	293.47115	70996	09375	5	13	13	15	-22	037	676	383	779.85000	61035	15625	5
14	16	131	005419.460.91079	71191	40625	5	5	15	15	-4	369	619	383	351.71086	17336	33812	5	15	15	17	32	367	546	824	868.46990	58532	71484	375
16	18	-1	587222.241.282.64122	00927	73437	5	5	17	17	3	047	335	137	389.97441	15735	20312	5	17	17	19	-31	719	385	788	135.59303	28369	14062	5
18	20	1	173394.992	981.08329	77294	92187	5	19	19	-1	208	588	683	394.14024	35302	73437	5	19	19	21	19	864	595	615	235.28919	21997	07031	25
20		-489	509669	918.75495	91064	45312	5	21	21	3	047	335	137	389.97441	15735	20312	5	21	21	23	-7	189	356	620	984.70039	36767	57812	5
22		88	070777	433.08143	61572	26562	5	23	23	-88	070	777	433.08143	61572	26562	5	23	23	25	1	143	761	280	611.20233	53576	66015	625	

TABLE 1 (Continued)

P³	945	10 395	P⁵	10 395	P⁵	135 135	P⁵	135 135
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
0	945.	1	0	-5 197.5	-1	1	-67 567.5	16 891.875
2	-1 890.	3	2	72 962.5	7	3	-712 242.5	-540 540.
4	945.	5	4	-140 332.5	-27	5	337 837.5	2 468 213.75
			6	67 567.5	13	7		-3 435 809.375
								85
P⁵	135 135	P⁵	135 135	P⁵	2 297 295	P⁵	2 297 295	P⁵
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
1	253 378.125	1	1	-42 229.6875	-5	1	-717 904.6875	89 738.08593 75
3	-3 378 375.	2	2	238 173.4375	265	3	15 075 998.375	-999 570.79312 5
5	11 452 691.25	4	4	-17 989 846.875	-2 130	5	-85 287 076.875	85 340 919.72656 25
7	-13 783 770.	6	6	48 530 356.875	5 746	7	190 962 646.875	-369 649 123.59325
9	5 456 075.625	8	8	-51 832 718.4375	-6 137	9	-182 778 533.4375	706 902 798.16406 25
		10	10	19 096 264.6875	2 261	11	62 744 869.6875	-611 762 479.45312 5
						12	196 077 717.77343 75	196 077 717.77343 75
								10 925
P⁵	43 648 605	P⁵	43 648 605	P⁵	43 648 605	P⁵	43 648 605	P⁵
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
1	1 705 023.63281 25	5	1	-170 502.36328 125	-1	1	-3 580 549.62890 625	-231
3	-51 150 708.98628 75	-150	2	18 243 753.87109 375	107	3	144 415 501.69921 875	9 317
5	426 596 912.24998 75	1 251	4	-310 484 803.53515 625	-1 821	5	-1 650 633 378.92578 125	-106 491
7	-1 490 872 684.52118 75	-4 372	6	1 339 464 382.32421 875	11 375	7	8 176 440 831.15234 375	527 505
9	2 486 255 491.73437 5	7 291	8	-8 372 518 548.92578 125	-33 235	9	-20 490 121 507.32421 875	-1 321 925
11	-1 960 777 171.73437 5	-5 750	10	-6 058 801 479.19921 875	49 105	11	27 160 328 961.03515 625	1 522 585
13	588 235 153.32031 25	1 725	11	1 705 876 144.62890 625	-35 505	12	-18 144 318 992.87109 375	-1 170 555
						13	14 807 469 134.86328 125	310 155
P⁵	43 648 605	P⁵	43 648 605	P⁵	43 648 605	P⁵	43 648 605	P⁵
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
0	298 379.13574 21875	-980	1	6 862 720.12207 03125	91	1	-490 194.29443 35937 5	-13
2	-41 773 079.00390 625	22 064	3	-356 850 816.22656 25	-4 732	2	86 764 390.11474 60937 5	2 301
4	940 491 035.85937 5	-186 116	5	5 325 470 340.33203 125	70 616	3	-2 488 236 238.54452 1875	-65 988
6	-7 933 304 461.11328 4875	760 150	7	-35 195 321 025.63476 5625	-466 700	4	27 107 744 482.17773 4375	718 900
8	32 401 842 862.06054 875	-1 665 660	9	121 516 784 103.41796 875	1 616 550	5	-142 249 467 744.26269 53125	-3 878 550
10	-70 999 741 605.76111 375	2 001 000	11	-237 342 943 918.75	-3 144 180	6	438 836 638 205.78613 28125	11 637 990
12	85 293 807 233.44609 375	-1 240 620	12	774 927 044 008.15429 6875	3 452 160	7	-766 791 327 010.69335 9375	-20 335 380
14	-52 882 160 483.44609 375	310 155	13	-200 510 764 453.02734 375	-1 471 975	8	1419 697 907 681.57958 98437 5	-11 125 125
16	13 220 540 120.87402 34375		14	35 593 761 863.89160 15625		9	94 069 227 783.14208 98437 5	2 494 725
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TABLE 1 (Continued)

P_{20}^5			386 122 275			5 019 589 575		
k			Numerator Denominator			Numerator Denominator		
k			b_k			b_k		
1	1	1	-12 25	857 36083 98437 5	-65	765 928 58505 24407 34375	-1 090	5
2	2	2	796 56	-38 45458 98437 5	4 225	-166 975 231 20114 28710 375	38 705	5
3	3	3	-14 990 141	-77929 6875	-79 508	5 99 053 176 532 69042 96875	-572 256	5
4	4	4	126 793 656	125 19335 9375	672 516	-80 765 083 108 08715 82031 25	3 612 762	5
5	5	5	-575 306 729	776 0 863 28125	051 438	533 423 537 358 48094 1375	-14 099 916	5
6	6	6	1 520 362 113	900 5 269 53125	-3 064 030	-5 094 039 365 324 27215 57617 125	33 254 010	5
7	7	7	-2 410 206 160	497 8027 4375	-12 783 783	-7 386 976 792 538 36059 57031 25	-48 232 360	5
8	8	8	255 627 537	566 0446 1875	11 983 892	6 435 511 045 714 20822 14355 46875	42 011 169	5
9	9	9	-1 7 644 578	954 33349 6 37 5	-6 087 125	-3 087 822 401 981 63909 91210 9375	-20 157 378	5
10	10	10	244 579 992	246 16943 35537 5	1 297 257	626 736 230 105 18417 35839 84375	4 091 349	5
P_{21}^5			885 809 925			885 809 925		
k			Numerator Denominator			Numerator Denominator		
k			b_k			b_k		
1	1	1	20 682 071	79641 72363 28125	765	-1 148 892 87757 87353 51562 5	-85	5
2	2	2	-1 640 619	029 18243 40820 3125	-60 660	302 158 922 80320 2374 60937 5	27 355	5
3	3	3	37 923 112	660 26992 79785 15625	402 857	-12 995 127 338 29307 55615 23437 5	-941 432	5
4	4	4	-398 215 462	511 81030 27343 75	-14 730 810	215 928 921 762 80555 72509 76562 5	15 977 637	5
5	5	5	2 279 716	887 093 21441 65039 0625	84 331 594	-1 825 633 962 316 94717 40722 65625	-135 071 154	5
6	6	6	-7 788 550	698 709 90905 76171 875	-288 115 116	8 939 140 831 104 77640 99121 06375	661 356 542	5
7	7	7	16 571 120	757 758 03375 24414 0625	613 001 130	-27 112 435 794 761 18087 76855 46875	-2 005 893 750	5
8	8	8	-22 571 34	489 297 373 33374 02343 75	-818 802 008	52 508 267 083 202 62527 46582 03125	3 884 785 770	5
9	9	9	18 033 278	471 677 86026 00097 65625	667 089 465	-64 985 489 812 004 64668 27392 57812 5	-4 808 199 913	5
10	10	10	-8 184 437	828 432 40509 00320 3125	-302 759 826	49 714 929 782 167 10929 87060 54687 5	3 678 122 751	5
11	11	11	1 585 273	993 795 46585 08300 78125	58 642 669	-21 401 198 916 238 78898 62060 54687 5	-1 583 352 063	5
12	12	12	-3 963 184	984 488 66462 70751 95312 5	-293 213 345	3 963 184 984 488 66462 70751 95312 5	293 213 345	5
P_{22}^5			885 809 925			885 809 925		
k			Numerator Denominator			Numerator Denominator		
k			b_k			b_k		
1	1	1	20 682 071	79641 72363 28125	765	-1 148 892 87757 87353 51562 5	-85	5
2	2	2	-1 640 619	029 18243 40820 3125	-60 660	302 158 922 80320 2374 60937 5	27 355	5
3	3	3	37 923 112	660 26992 79785 15625	402 857	-12 995 127 338 29307 55615 23437 5	-941 432	5
4	4	4	-398 215 462	511 81030 27343 75	-14 730 810	215 928 921 762 80555 72509 76562 5	15 977 637	5
5	5	5	2 279 716	887 093 21441 65039 0625	84 331 594	-1 825 633 962 316 94717 40722 65625	-135 071 154	5
6	6	6	-7 788 550	698 709 90905 76171 875	-288 115 116	8 939 140 831 104 77640 99121 06375	661 356 542	5
7	7	7	16 571 120	757 758 03375 24414 0625	613 001 130	-27 112 435 794 761 18087 76855 46875	-2 005 893 750	5
8	8	8	-22 571 34	489 297 373 33374 02343 75	-818 802 008	52 508 267 083 202 62527 46582 03125	3 884 785 770	5
9	9	9	18 033 278	471 677 86026 00097 65625	667 089 465	-64 985 489 812 004 64668 27392 57812 5	-4 808 199 913	5
10	10	10	-8 184 437	828 432 40509 00320 3125	-302 759 826	49 714 929 782 167 10929 87060 54687 5	3 678 122 751	5
11	11	11	1 585 273	993 795 46585 08300 78125	58 642 669	-21 401 198 916 238 78898 62060 54687 5	-1 583 352 063	5
12	12	12	-3 963 184	984 488 66462 70751 95312 5	-293 213 345	3 963 184 984 488 66462 70751 95312 5	293 213 345	5
P_{23}^5			885 809 925			885 809 925		
k			Numerator Denominator			Numerator Denominator		
k			b_k			b_k		
1	1	1	20 682 071	79641 72363 28125	765	-1 148 892 87757 87353 51562 5	-85	5
2	2	2	-1 640 619	029 18243 40820 3125	-60 660	302 158 922 80320 2374 60937 5	27 355	5
3	3	3	37 923 112	660 26992 79785 15625	402 857	-12 995 127 338 29307 55615 23437 5	-941 432	5
4	4	4	-398 215 462	511 81030 27343 75	-14 730 810	215 928 921 762 80555 72509 76562 5	15 977 637	5
5	5	5	2 279 716	887 093 21441 65039 0625	84 331 594	-1 825 633 962 316 94717 40722 65625	-135 071 154	5
6	6	6	-7 788 550	698 709 90905 76171 875	-288 115 116	8 939 140 831 104 77640 99121 06375	661 356 542	5
7	7	7	16 571 120	757 758 03375 24414 0625	613 001 130	-27 112 435 794 761 18087 76855 46875	-2 005 893 750	5
8	8	8	-22 571 34	489 297 373 33374 02343 75	-818 802 008	52 508 267 083 202 62527 46582 03125	3 884 785 770	5
9	9	9	18 033 278	471 677 86026 00097 65625	667 089 465	-64 985 489 812 004 64668 27392 57812 5	-4 808 199 913	5
10	10	10	-8 184 437	828 432 40509 00320 3125	-302 759 826	49 714 929 782 167 10929 87060 54687 5	3 678 122 751	5
11	11	11	1 585 273	993 795 46585 08300 78125	58 642 669	-21 401 198 916 238 78898 62060 54687 5	-1 583 352 063	5
12	12	12	-3 963 184	984 488 66462 70751 95312 5	-293 213 345	3 963 184 984 488 66462 70751 95312 5	293 213 345	5
P_{24}^5			885 809 925			885 809 925		
k			Numerator Denominator			Numerator Denominator		
k			b_k			b_k		
1	1	1	20 682 071	79641 72363 28125	765	-1 148 892 87757 87353 51562 5	-85	5
2	2	2	-1 640 619	029 18243 40820 3125	-60 660	302 158 922 80320 2374 60937 5	27 355	5
3	3	3	37 923 112	660 26992 79785 15625	402 857	-12 995 127 338 29307 55615 23437 5	-941 432	5
4	4	4	-398 215 462	511 81030 27343 75	-14 730 810	215 928 921 762 80555 72509 76562 5	15 977 637	5
5	5	5	2 279 716	887 093 21441 65039 0625	84 331 594	-1 825 633 962 316 94717 40722 65625	-135 071 154	5
6	6	6	-7 788 550	698 709 90905 76171 875	-288 115 116	8 939 140 831 104 77640 99121 06375	661 356 542	5
7	7	7	16 571 120	757 758 03375 24414 0625	613 001 130	-27 112 435 794 761 18087 76855 46875	-2 005 893 750	5
8	8	8	-22 571 34	489 297 373 33374 02343 75	-818 802 008	52 508 267 083 202 62527 46582 03125	3 884 785 770	5
9	9	9	18 033 278	471 677 86026 00097 65625	667 089 465	-64 985 489 812 004 64668 27392 57812 5	-4 808 199 913	5
10	10	10	-8 184 437	828 432 40509 00320 3125	-302 759 826	49 714 929 782 167 10929 87060 54687 5	3 678 122 751	5
11	11	11	1 585 273	993 795 46585 08300 78125	58 642 669	-21 401 198 916 238 78898 62060 54687 5	-1 583 352 063	5
12	12	12	-3 963 184	984 488 66462 70751 95312 5	-293 213 345	3 963 184 984 488 66462 70751 95312 5	293 213 345	5
13	13	13	1 628 213	930 36621 09375	1 628 213 930	1 665 894 67248 91662 59765 625	323	5
14	14	14	-32 257 291	611 175 06256 10351 5625	-32 257 291 611 175 06256 10351 5625	-519 759 137 81661 98730 46875	-100 776	5
15	15	15	121 609 758	014 677 87055 96923 84812 5	121 609 758 014 677 87055 96923 84812 5	26 597 674 340 59202 85034 17968 75	5 157 018	5
16	16	16	-300 283 085	467 957 02209 47265 625	-300 283 085 467 957 02209 47265 625	-528 831 604 834 96093 75	-102 533 120	5
17	17	17	492 379 650	776 365 31637 19177 24609 375	492 379 650 776 365 31637 19177 24609 375	393 825 441 112 06007 00378 41796 875	1 045 807 785	5
18	18	18	-531 066 787	921 481 06002 80761 71875	-531 066 787 921 481 06002 80761 71875	-32 257 291 611 175 06256 10351 5625	-6 254 360 112	5
19	19	19	361 880 506	820 493 90850 06713 86718 75	361 880 506 820 493 90850 06713 86718 75	121 609 758 014 677 87055 96923 84812 5	-23 578 892 764	5
20	20	20	-141 172 820	921 154 11682 12890 625	-141 172 820 921 154 11682 12890 625	492 379 650 776 365 31637 19177 24609 375	95 467 396 485	5
21	21	21	24 018 986	892 835 24904 25109 86328 125	24 018 986 892 835 24904 25109 86328 125	-361 880 506 820 493 90850 06713 86718 75	-102 968 438 120	5
22	22	22	-55 276 001	099 447 16453 55224 60937 5	-55 276 001 099 447 16453 55224 60937 5	-519 759 137 81661 98730 46875	70 164 942 378	5
23	23	23	9 803 668	119 524 59144 59228 51562 5	9 803 668 119 524 59144 59228 51562 5	26 597 674 340 59202 85034 17968 75	-27 371 971 596	5

P_1^0	α_k	b_k	P_1^1	α_k	b_k	P_1^2	α_k	b_k	P_1^3	α_k	b_k	P_1^4	α_k	b_k	P_1^5	α_k	b_k	P_1^6	α_k	b_k	P_1^7	α_k	b_k	P_1^8	α_k	b_k	P_1^9	α_k	b_k	P_1^{10}	α_k	b_k	P_1^{11}	α_k	b_k	P_1^{12}	α_k	b_k	P_1^{13}	α_k	b_k	P_1^{14}	α_k	b_k	P_1^{15}	α_k	b_k	P_1^{16}	α_k	b_k	P_1^{17}	α_k	b_k	P_1^{18}	α_k	b_k	P_1^{19}	α_k	b_k	P_1^{20}	α_k	b_k	P_1^{21}	α_k	b_k	P_1^{22}	α_k	b_k	P_1^{23}	α_k	b_k	P_1^{24}	α_k	b_k	P_1^{25}	α_k	b_k	P_1^{26}	α_k	b_k	P_1^{27}	α_k	b_k	P_1^{28}	α_k	b_k	P_1^{29}	α_k	b_k	P_1^{30}	α_k	b_k	P_1^{31}	α_k	b_k	P_1^{32}	α_k	b_k	P_1^{33}	α_k	b_k	P_1^{34}	α_k	b_k	P_1^{35}	α_k	b_k	P_1^{36}	α_k	b_k	P_1^{37}	α_k	b_k	P_1^{38}	α_k	b_k	P_1^{39}	α_k	b_k	P_1^{40}	α_k	b_k	P_1^{41}	α_k	b_k	P_1^{42}	α_k	b_k	P_1^{43}	α_k	b_k	P_1^{44}	α_k	b_k	P_1^{45}	α_k	b_k	P_1^{46}	α_k	b_k	P_1^{47}	α_k	b_k	P_1^{48}	α_k	b_k	P_1^{49}	α_k	b_k	P_1^{50}	α_k	b_k	P_1^{51}	α_k	b_k	P_1^{52}	α_k	b_k	P_1^{53}	α_k	b_k	P_1^{54}	α_k	b_k	P_1^{55}	α_k	b_k	P_1^{56}	α_k	b_k	P_1^{57}	α_k	b_k	P_1^{58}	α_k	b_k	P_1^{59}	α_k	b_k	P_1^{60}	α_k	b_k	P_1^{61}	α_k	b_k	P_1^{62}	α_k	b_k	P_1^{63}	α_k	b_k	P_1^{64}	α_k	b_k	P_1^{65}	α_k	b_k	P_1^{66}	α_k	b_k	P_1^{67}	α_k	b_k	P_1^{68}	α_k	b_k	P_1^{69}	α_k	b_k	P_1^{70}	α_k	b_k	P_1^{71}	α_k	b_k	P_1^{72}	α_k	b_k	P_1^{73}	α_k	b_k	P_1^{74}	α_k	b_k	P_1^{75}	α_k	b_k	P_1^{76}	α_k	b_k	P_1^{77}	α_k	b_k	P_1^{78}	α_k	b_k	P_1^{79}	α_k	b_k	P_1^{80}	α_k	b_k	P_1^{81}	α_k	b_k	P_1^{82}	α_k	b_k	P_1^{83}	α_k	b_k	P_1^{84}	α_k	b_k	P_1^{85}	α_k	b_k	P_1^{86}	α_k	b_k	P_1^{87}	α_k	b_k	P_1^{88}	α_k	b_k	P_1^{89}	α_k	b_k	P_1^{90}	α_k	b_k	P_1^{91}	α_k	b_k	P_1^{92}	α_k	b_k	P_1^{93}	α_k	b_k	P_1^{94}	α_k	b_k	P_1^{95}	α_k	b_k	P_1^{96}	α_k	b_k	P_1^{97}	α_k	b_k	P_1^{98}	α_k	b_k	P_1^{99}	α_k	b_k	P_1^{100}	α_k	b_k	P_1^{101}	α_k	b_k	P_1^{102}	α_k	b_k	P_1^{103}	α_k	b_k	P_1^{104}	α_k	b_k	P_1^{105}	α_k	b_k	P_1^{106}	α_k	b_k	P_1^{107}	α_k	b_k	P_1^{108}	α_k	b_k	P_1^{109}	α_k	b_k	P_1^{110}	α_k	b_k	P_1^{111}	α_k	b_k	P_1^{112}	α_k	b_k	P_1^{113}	α_k	b_k	P_1^{114}	α_k	b_k	P_1^{115}	α_k	b_k	P_1^{116}	α_k
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TABLE 1 (Continued)

P_{21}^2	k	Numerator		α_k	b_k	Numerator		α_k	b_k
		Denominator				Denominator			
		15 058 768 725	2 048			15 058 768 725	32 768		
1	1	-330 881	148.74267	57812 5	-45	20 680 071.79641	72363 28125		45
3	3	23 382	267 844.48242	1875	3 180	859 816 872.15805	05371 09375		-10 575
5	5	484 608	530 448.52294	92187 5	-65 907	187 974 959 272.16720	58105 46875		409 035
7	7	4 588 924	475 682.42187	5	624 096	-2 825 431 353	242.94204	71191 40625	-6 148 161
9	9	-23 812	751 571 911.05957	03125	-3 238 546	21 712 098 371	374.36065	67382 8125	47 245 698
11	11	74 087	806 877 378.02734	375	10 075 992	-97 072 642	121 275.07171	63085 9375	-211 230 838
13	13	-144 169	990 018 131.22558	59375	-19 607 190	269 944 424	741 823.80218	50885 9375	587 401 206
15	15	176 837	944 656 810.9375		24 050 048	-481 157 426	280 422.30987	54882 8125	-1 047 002 370
17	17	-32 806	935 784 240.00244	14062 5	-18 061 809	550 045 116	289 630.29556	27441 40625	1 196 902 529
19	19	55 764	238 229 846.63085	9375	7 583 964	-389 336 938	872 027.88009	64355 46875	-848 505 867
21	21	-10 027	779 681 682.94677	73437 5	-1 363 783	156 057 321	296 190.85922	24121 09375	339 581 967
23	23					-26 949 657 894	522.91946	41113 28125	-58 642 669

P_{12}^2	k	Numerator		α_k	b_k	Numerator		α_k	b_k
		Denominator				Denominator			
		25 688 487 825	32 768			128 442 439 125	65 536		
1	1	599 722	082.09509	38535 15625	765	-33 317 893.44978	33251 95312 5		-17
3	3	-51 376	191 699.56588	74511 71875	-65 535	9 395 645	952.83889	77050 78125	4 794
5	5	1 095 759	530 576.83334	35058 59375	1 652 859	-36 997 490	487.35809	32617 1875	-222 972
7	7	-1 037 711	542 561.18850	70800 78125	-19 181 457	7 935 455	954 508.69369	50683 59375	4 048 958
9	9	96 694	204 168 315.05279	54101 5625	123 342 242	-74 244 694	180 374.01771	54541 01562 5	-37 882 341
11	11	-378 984	134 543 762.52893	6992 1875	-483 428 694	408 874	123 169 543.86673	09570 3125	208 622 436
13	13	274 015	265 824 726.20086	66992 1875	1 214 381 910	-424 480 146	673 873.84033	20312 5	-726 821 536
15	15	-1 012 712	265 824 726.20086	66992 1875	-1 996 190 626	3 261 015	608 983 876.57928	46679 6875	1 663 888 668
17	17	1 701 742	813 853 063.59967	04101 5625	2 136 286 353	-5 072 349	457 785 111.48643	49365 23437 5	-2 537 073 387
19	19	-1 430 032	995 278 173.30927	49511 71875	-1 433 606 203	5 001 170	782 054 044.65103	14941 40625	2 551 779 074
21	21	439 606	352 318 571.34227	49511 71875	548 005 631	-1 165 176	385 439 667.40036	01074 21875	-1 625 817 444
23	23	-71 337	329 720 795.96328	73535 15625	-90 997 245	-85 269 694	270 967.23747	25341 79687 5	594 515 334

P_{13}^2	k	Numerator		α_k	b_k	Numerator		α_k	b_k
		Denominator				Denominator			
		209 563 979 625	65 536			209 563 979 625	65 536		
1	1	-1 032 854	696.94328	30810 54687 5	-323	-1 032 854	696.94328	30810 54687 5	-323
3	3	105 351	179 088.21487	42675 78125	32 946	105 351	179 088.21487	42675 78125	32 946
5	5	-3 172	929 629 009.76562 5		-992 256	-3 172	929 629 009.76562 5		-992 256
7	7	44 208	246 738 566.40243	53027 34375	13 825 046	44 208	246 738 566.40243	53027 34375	13 825 046
9	9	-314 148	217 876 198.85589	05029 29687 5	-107 623 923	-314 148	217 876 198.85589	05029 29687 5	-107 623 923
11	11	1 652 860	845 843 184.84208	25195 3125	516 891 732	1 652 860	845 843 184.84208	25195 3125	516 891 732
13	13	-5 176 841	260 668 821.27380	37109 375	-1 618 930 264	-5 176 841	260 668 821.27380	37109 375	-1 618 930 264
15	15	10 800	905 267 101 735.28289	79492 1875	3 402 736 524	10 800	905 267 101 735.28289	79492 1875	3 402 736 524
17	17	-15 467	757 991 903 282.87696	83837 89062 5	-4 837 162 329	-15 467	757 991 903 282.87696	83837 89062 5	-4 837 162 329
19	19	14 672	545 167 310 613.01040	64941 40625	4 588 479 002	14 672	545 167 310 613.01040	64941 40625	4 588 479 002
21	21	-8 895	890 163 393 293.10607	91015 625	-2 781 971 688	-8 895	890 163 393 293.10607	91015 625	-2 781 971 688
23	23	3 117	566 462 008 820.07980	34667 96875	974 942 526	3 117	566 462 008 820.07980	34667 96875	974 942 526
25	25	-80 379	737 856 704.98085	02197 26562 5	-150 226 993	-80 379	737 856 704.98085	02197 26562 5	-150 226 993

TABLE 1 (Continued)

P_7^7		135 135		P_7^6		2 027 025		P_7^5		2 027 025		P_7^4		218 243 025		P_7^3		130 945 815		P_7^2		25 097 947 875		P_7^1		135 135		P_7^0		2 027 025		P_7^{-1}		2 027 025		P_7^{-2}		2 027 025		P_7^{-3}		2 027 025		P_7^{-4}		2 027 025		P_7^{-5}		2 027 025		P_7^{-6}		2 027 025		P_7^{-7}		2 027 025		P_7^{-8}		2 027 025		P_7^{-9}		2 027 025		P_7^{-10}		2 027 025		P_7^{-11}		2 027 025		P_7^{-12}		2 027 025		P_7^{-13}		2 027 025		P_7^{-14}		2 027 025		P_7^{-15}		2 027 025		P_7^{-16}		2 027 025		P_7^{-17}		2 027 025		P_7^{-18}		2 027 025		P_7^{-19}		2 027 025		P_7^{-20}		2 027 025		P_7^{-21}		2 027 025		P_7^{-22}		2 027 025		P_7^{-23}		2 027 025		P_7^{-24}		2 027 025		P_7^{-25}		2 027 025		P_7^{-26}		2 027 025		P_7^{-27}		2 027 025		P_7^{-28}		2 027 025		P_7^{-29}		2 027 025		P_7^{-30}		2 027 025		P_7^{-31}		2 027 025		P_7^{-32}		2 027 025		P_7^{-33}		2 027 025		P_7^{-34}		2 027 025		P_7^{-35}		2 027 025		P_7^{-36}		2 027 025		P_7^{-37}		2 027 025		P_7^{-38}		2 027 025		P_7^{-39}		2 027 025		P_7^{-40}		2 027 025		P_7^{-41}		2 027 025		P_7^{-42}		2 027 025		P_7^{-43}		2 027 025		P_7^{-44}		2 027 025		P_7^{-45}		2 027 025		P_7^{-46}		2 027 025		P_7^{-47}		2 027 025		P_7^{-48}		2 027 025		P_7^{-49}		2 027 025		P_7^{-50}		2 027 025		P_7^{-51}		2 027 025		P_7^{-52}		2 027 025		P_7^{-53}		2 027 025		P_7^{-54}		2 027 025		P_7^{-55}		2 027 025		P_7^{-56}		2 027 025		P_7^{-57}		2 027 025		P_7^{-58}		2 027 025		P_7^{-59}		2 027 025		P_7^{-60}		2 027 025		P_7^{-61}		2 027 025		P_7^{-62}		2 027 025		P_7^{-63}		2 027 025		P_7^{-64}		2 027 025		P_7^{-65}		2 027 025		P_7^{-66}		2 027 025		P_7^{-67}		2 027 025		P_7^{-68}		2 027 025		P_7^{-69}		2 027 025		P_7^{-70}		2 027 025		P_7^{-71}		2 027 025		P_7^{-72}		2 027 025		P_7^{-73}		2 027 025		P_7^{-74}		2 027 025		P_7^{-75}		2 027 025		P_7^{-76}		2 027 025		P_7^{-77}		2 027 025		P_7^{-78}		2 027 025		P_7^{-79}		2 027 025		P_7^{-80}		2 027 025		P_7^{-81}		2 027 025		P_7^{-82}		2 027 025		P_7^{-83}		2 027 025		P_7^{-84}		2 027 025		P_7^{-85}		2 027 025		P_7^{-86}		2 027 025		P_7^{-87}		2 027 025		P_7^{-88}		2 027 025		P_7^{-89}		2 027 025		P_7^{-90}		2 027 025		P_7^{-91}		2 027 025		P_7^{-92}		2 027 025		P_7^{-93}		2 027 025		P_7^{-94}		2 027 025		P_7^{-95}		2 027 025		P_7^{-96}		2 027 025		P_7^{-97}		2 027 025		P_7^{-98}		2 027 025		P_7^{-99}		2 027 025		P_7^{-100}		2 027 025		P_7^{-101}		2 027 025		P_7^{-102}		2 027 025		P_7^{-103}		2 027 025		P_7^{-104}		2 027 025		P_7^{-105}		2 027 025		P_7^{-106}		2 027 025		P_7^{-107}		2 027 025		P_7^{-108}		2 027 025		P_7^{-109}		2 027 025		P_7^{-110}		2 027 025		P_7^{-111}		2 027 025		P_7^{-112}		2 027 025		P_7^{-113}		2 027 025		P_7^{-114}		2 027 025		P_7^{-115}		2 027 025		P_7^{-116}		2 027 025		P_7^{-117}		2 027 025		P_7^{-118}		2 027 025		P_7^{-119}		2 027 025		P_7^{-120}		2 027 025		P_7^{-121}		2 027 025		P_7^{-122}		2 027 025		P_7^{-123}		2 027 025		P_7^{-124}		2 027 025		P_7^{-125}		2 027 025		P_7^{-126}		2 027 025		P_7^{-127}		2 027 025		P_7^{-128}		2 027 025		P_7^{-129}		2 027 025		P_7^{-130}		2 027 025		P_7^{-131}		2 027 025		P_7^{-132}		2 027 025		P_7^{-133}		2 027 025		P_7^{-134}		2 027 025		P_7^{-135}		2 027 025		P_7^{-136}		2 027 025		P_7^{-137}		2 027 025		P_7^{-138}		2 027 025		P_7^{-139}		2 027 025		P_7^{-140}		2 027 025		P_7^{-141}		2 027 025		P_7^{-142}		2 027 025		P_7^{-143}		2 027 025		P_7^{-144}		2 027 025		P_7^{-145}		2 027 025		P_7^{-146}		2 027 025		P_7^{-147}		2 027 025		P_7^{-148}		2 027 025		P_7^{-149}		2 027 025		P_7^{-150}		2 027 025		P_7^{-151}		2 027 025		P_7^{-152}		2 027 025		P_7^{-153}		2 027 025		P_7^{-154}		2 027 025		P_7^{-155}		2 027 025		P_7^{-156}		2 027 025		P_7^{-157}		2 027 025		P_7^{-158}		2 027 025		P_7^{-159}		2 027 025		P_7^{-160}		2 027 025		P_7^{-161}		2 027 025		P_7^{-162}		2 027 025		P_7^{-163}		2 027 025		P_7^{-164}		2 027 025		P_7^{-165}		2 027 025		P_7^{-166}		2 027 025		P_7^{-167}		2 027 025		P_7^{-168}		2 027 025		P_7^{-169}		2 027 025		P_7^{-170}		2 027 025		P_7^{-171}		2 027 025		P_7^{-172}		2 027 025		P_7^{-173}		2 027 025		P_7^{-174}		2 027 025		P_7^{-175}		2 027 025		P_7^{-176}		2 027 025		P_7^{-177}		2 027 025		P_7^{-178}		2 027 025		P_7^{-179}		2 027 025		P_7^{-180}		2 027 025		P_7^{-181}		2 027 025		P_7^{-182}		2 027 025		P_7^{-183}		2 027 025		P_7^{-184}		2 027 025		P_7^{-185}		2 027 025		P_7^{-186}		2 027 025		P_7^{-187}		2 027 025		P_7^{-188}		2 027 025		P_7^{-189}		2 027 025		P_7^{-190}		2 027 025		P_7^{-191}		2 027 025		P_7^{-192}		2 027 025		P_7^{-193}		2 027 025		P_7^{-194}		2 027 025		P_7^{-195}		2 027 025		P_7^{-196}		2 027 025		P_7^{-197}		2 027 025		P_7^{-198}		2 027 025		P_7^{-199}		2 027 025		P_7^{-200}		2 027 025		P_7^{-201}		2 027 025		P_7^{-202}		2 027 025		P_7^{-203}		2 027 025		P_7^{-204}		2 027 025		P_7^{-205}		2 027 025		P_7^{-206}		2 027 025		P_7^{-207}		2 027 025		P_7^{-208}		2 027 025		P_7^{-209}		2 027 025		P_7^{-210}		2 027 025		P_7^{-211}		2 027 025		P_7^{-212}		2 027 025		P_7^{-213}		2 027 025		P_7^{-214}		2 027 025		P_7^{-215}		2 027 025		P_7^{-216}		2 027 025		P_7^{-217}		2 027 025		P_7^{-218}		2 027 025		P_7^{-219}		2 027 025		P_7^{-220}		2 027 025		P_7^{-221}		2 027 025		P_7^{-222}		2 027 025		P_7^{-223}		2 027 025		P_7^{-224}		2 027 025		P_7^{-225}		2 027 025		P_7^{-226}		2 027 025		P_7^{-227}		2 027 025		P_7^{-228}		2 027 025		P_7^{-229}		2 027 025		P_7^{-230}		2 027 025		P_7^{-231}		2 027 025		P_7^{-232}		2 027 025		P_7^{-233}		2 027 025		P_7^{-234}		2 027 025		P_7^{-235}		2 027 025		P_7^{-236}		2 027 025		P_7^{-237}		2 027 025		P_7^{-238}		2 027 025		P_7^{-239}		2 027 025		P_7^{-240}		2 027 025		P_7^{-241}		2 027 025		P_7^{-242}		2 027 025		P_7^{-243}		2 027 025		P_7^{-244}		2 027 025		P_7^{-245}		2 027 025		P_7^{-246}		2 027 025		P_7^{-247}		2 027 025		P_7^{-248}		2 027 025		P_7^{-249}		2 027 025		P_7^{-250}		2 027 025		P_7^{-251}		2 027 025		P_7^{-252}		2 027 025		P_7^{-253}		2 027 025		P_7^{-254}		2 027 025		P_7^{-255}		2 027 025		P_7^{-256}		2 027 025		P_7^{-257}		2 027 025		P_7^{-258}		2 027 025		P_7^{-259}		2 027 025		P_7^{-260}		2 027 025		P_7^{-261}		2 027 025		P_7^{-262}		2 027 025		P_7^{-263}		2 027 025		P_7^{-264}		2 027 025		P_7^{-265}		2 027 025		P_7^{-266}		2 027 025		P_7^{-267}		2 027 025		P_7^{-268}		2 027 025		P_7^{-269}		2 027 025		P_7^{-270}		2 027 025		P_7^{-271}		2 027 025		P_7^{-272}		2 027 025		P_7^{-273}		2 027 025		P_7^{-274}		2 027 025		P_7^{-275}		2 027 025		P_7^{-276}		2 027 025		P_7^{-277}		2 027 025		P_7^{-278}		2 027 025		P_7^{-279}		2 027 025		P_7^{-280}		2 027 025		P_7^{-281}		2 027 025		P_7^{-282}		2 027 025		P_7^{-283}		2 027 025		P_7^{-284}		2 027 025		P_7^{-285}		2 027 025		P_7^{-286}		2 027 025		P_7^{-287}		2 027 025		P_7^{-288}		2 027 025		P_7^{-289}		2 027 025		P_7^{-290}		2 027 025		P_7^{-291}		2 027 025		P_7^{-292}		2 027 025		P_7^{-293}		2 027 025		P_7^{-294}		2 027 025		P_7^{-295}		2 027 025		P_7^{-296}		2 027 025		P_7^{-297}		2 027 025		P_7^{-298}		2 027 025		P_7^{-299}		2 027 025		P_7^{-300}		2 027 025		P_7^{-301}		2 027 025		P_7^{-302}		2 027 025		P_7^{-303}		2 027 025		P_7^{-304}		2 027 025		P_7^{-305}		2 027 025		P_7^{-306}		2 027 025		P_7^{-307}		2 027 025		P_7^{-308}		2 027 025		P_7^{-309}		2 027 025		P_7^{-310}		2 027 025		P_7^{-311}		2 027 025		P_7^{-312}		2 027 025		P_7^{-313}		2 027 025		P_7^{-314}		2 027 025		P_7^{-315}		2 027 025		P_7^{-316}		2 027 025		P_7^{-317}		2 027 025		P_7^{-318}		2 027 025		P_7^{-319}		2 027 025		P_7^{-320}		2 027 025		P_7^{-321}		2 027 025		P_7^{-322}		2 027 025		P_7^{-323}		2 027 025		P_7^{-324}		2 027 025		P_7^{-325}		2 027 025		P_7^{-326}		2 027 025		P_7^{-327}		2 027 025		P_7^{-328}		2 027 025		P_7^{-329}		2 027 025		P_7^{-330}		2 027 025		P_7^{-331}		2 027 025		P_7^{-332}		2 027 025		P_7^{-333}		2 027 025		P_7^{-334}		2 027 025		P_7^{-335}		2 027 025		P_7^{-336}		2 027 025		P_7^{-337}		2 027 025		P_7^{-338}		2 027 025		P_7^{-339}		2 027 025		P_7^{-340}		2 027 025		P_7^{-341}		2 027 025		P_7^{-342}		2 027 025		P_7^{-343}		2 027 025		P_7^{-344}		2 027 025		P_7^{-345}		2 027 025		P_7^{-346}		2 027 025		P_7^{-347}		2 027 025		P_7^{-348}		2 027 025		P_7^{-349}		2 027 025	
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TABLE 1 (Continued)

P_{23}^7	k	a_k		b_k	
		Numerator	Denominator	Numerator	Denominator
	0	599 722 082 09609	98535 15625		
	2	-150 530 242 606 12106	32324 21875		
	4	6 174 138 835 179 34799	19433 59375		
	6	-97 791 282 428 672 13621	41113 28125		
	8	787 493 866 556 224 52545	16601 5625		
	10	-3 671 414 225 686 108 45184	32617 1875		
	12	10 599 704 378 730 744 80438	23242 1875		
	14	-19 538 119 817 291 247 59674	97226 5625		
	16	23 016 735 188 117 741 16897	58300 78125		
	18	-16 762 060 474 163 150 72250	35621 79375		
	20	6 872 162 763 103 344 45334	83869 71875		
	22	-1 212 734 605 253 531 5388	50057 65625		

P_{22}^7	k	a_k		b_k	
		Numerator	Denominator	Numerator	Denominator
	1	-9 595 553 313 53759	76562 5		
	3	722 865 016 286 49902	34375		
	5	853 773 184 626 81884	76562 5		
	7	157 843 307 604 169 131 37207	83125		
	9	-856 307 604 169 131 37207	83125		
	11	2 771 316 061 217 854 54101	15625		
	13	-5 584 554 455 159 000 61035	15625		
	15	7 065 426 815 718 462 59765	625		
	17	-5 453 889 246 874 342 19970	70312 5		
	19	2 346 500 445 513 809 54589	84375		
	21	-431 194 526 312 366 71142	57812 5		

Numerator 3 981 715 612 875
Denominator 65 536

P_{25}^7

Numerator 11 945 146 838 625
Denominator 32 768

P_{24}^7

k	a_k		b_k	
	Numerator	Denominator	Numerator	Denominator
0	-1 032 854 696 94328	30810 54687 5		
2	309 856 409 082 98492	43164 0625		
4	-15 238 738 198 701 19857	78808 59375		
6	291 046 059 342 253 85284	42382 8125		
8	-2 850 496 148 282 102 34260	55908 20312 5		
10	16 363 417 809 621 527 29797	36328 125		
12	-59 199 822 808 289 073 37188	72070 3125		
14	140 251 645 022 918 704 78820	80078 125		
16	-220 628 388 243 352 721 66633	60595 70312 5		
18	228 295 307 846 485 037 17803	95507 8125		
20	-149 261 472 885 812 087 18490	60058 59375		
22	55 880 908 281 290 171 24176	92539 8625		
24	-9 127 215 019 277 394 63615	41748 04687 5		

k	a_k		b_k	
	Numerator	Denominator	Numerator	Denominator
1	18 591 384 544 97909	54689 84375		
3	-1 691 815 993 593 09768	67675 78125		
5	45 046 924 752 484 34829	71191 40625		
7	-548 910 628 690 507 79342	65136 71875		
9	3 688 319 991 365 676 10931	39648 4375		
11	-15 040 938 261 398 984 32159	42382 8125		
13	39 160 161 144 418 530 83038	33007 8125		
15	-66 485 555 052 014 265 58685	30273 4375		
17	73 259 013 602 809 652 59606	32324 21875		
19	-50 483 050 332 416 610 01968	38378 59375		
21	19 760 440 332 660 481 83059	69238 78125		
23	-3 352 854 496 877 410 27450	56152 34375		

TABLE 1 (Continued)

P_0^0 Numerator 2 027 025 Denominator 1				P_0^1 Numerator 34 459 425 Denominator 1				P_0^2 Numerator 34 459 425 Denominator 2				P_0^3 Numerator 654 729 075 Denominator 2				P_0^4 Numerator 654 729 075 Denominator 128			
k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k
0	2 027 025.	1		1	34 459 425.	1		0	-17 229 712.5	-1		0	81 841 134.375			0	81 841 134.375		
2	-8 108 100.	-4		3	-137 837 700.	-4		2	396 833 287.5	-83		2	-3 764 692 181.25	-46		2	-3 764 692 181.25	-46	
4	12 167 150.	6		5	206 756 550.	6		4	-1 432 816 452.	118		4	-73 416 780 015.625	335		4	-73 416 780 015.625	335	
6	-8 108 100.	-4		7	-137 837 700.	-4		6	2 033 606 052.	118		6	-73 416 780 015.625	-900		6	-73 416 780 015.625	-900	
8	2 027 025.	1		9	34 459 425.	1		8	-1 323 687 862.5	-77		8	92 889 687 515.625	1 135		8	92 889 687 515.625	1 135	
								10	327 364 537.5	19		10	-56 143 018 181.25	-886		10	-56 143 018 181.25	-886	
												12	13 176 422 634.375	161		12	13 176 422 634.375	161	

P_1^0 Numerator 4 583 113 525 Denominator 128				P_1^1 Numerator 4 583 103 525 Denominator 16				P_1^2 Numerator 15 058 768 735 Denominator 16				P_1^3 Numerator 15 058 768 735 Denominator 128			
k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k
1	1 718 663 821.875			1	-286 443 970.3125			1	-6 588 211 317.1875			1	823 526 414.64843 75		
3	-33 227 500 556.25	-58		3	20 910 409 832.8125			3	191 058 128 198.4375			3	-85 646 747 123.4375		
5	181 605 477 178.125	317		5	-245 482 482 557.8125			5	-1 587 758 927 442.1875			5	1 446 112 384 122.65625		
7	-428 520 179 587.5	-748		7	1 075 024 220 582.8125			7	5 800 449 478 260.3375			7	-9 243 260 478 014.0625		
9	502 422 723 928.125	877		9	-2 253 454 714 448.4375			9	-10 914 783 806 489.0625			9	28 955 424 032 300.39062 5		
11	-289 881 297 956.25	-506		11	2 457 402 821 310.9375			11	11 091 724 339 007.8125			11	-49 359 820 361 414.0625		
13	65 882 113 171.875	115		13	-1 350 583 320 023.4375			13	-5 802 331 824 351.6625			13	46 863 358 858 722.65625		
				14	296 469 509 273.4375			14	1 228 730 824 132.8125			14	-23 336 385 658 523.4375		

P_1^4 Numerator 75 293 843 625 Denominator 128				P_1^5 Numerator 75 293 843 625 Denominator 256				P_1^6 Numerator 225 881 530 875 Denominator 256			
k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k
1	20 588 160 366.21093 75			1	-2 058 816 036 63109 375			1	-55 588 032 988.76952 125		
3	-823 526 414 648.4375			3	282 075 429 090.33203 125			3	2 909 097 053 743.6625 875		
5	9 536 435 881 528.90625			5	-6 497 623 411 576.17187 5			5	-44 306 207 053 643.6625 875		
7	-49 359 820 361 414.0625			7	56 485 676 780 736.32812 5			7	306 666 242 713 091.79867 5		
9	135 275 978 269 072.26562 5			9	-255 147 931 345 700.19531 25			9	-1 144 331 717 707 886.64843 75		
11	-210 563 939 562 539.0625			11	596 865 474 845 288.08593 75			11	2 505 334 999 809 243.16406 25		
13	187 305 200 680 390.375			13	-854 132 185 615 693.35937 5			13	-3 315 711 462 315 205.07812 5		
15	-88 882 029 61 375			15	713 909 166 527 197.26562 5			15	2 611 321 084 675 037.10937 5		
17	17 451 112 95 33.71093 75			17	-312 845 589 751 743.6625 875			17	-1 127 183 250 705 719.23828 125		
				18	61 078 895 358 437.98828 125			18	205 447 193 478 382.32421 875		

TABLE 1 (Continued)

P_{20}^2	k	a_k	b_k	Numerator Denominator
0	0	4	332 082 39746 09375	1 581 170 716 125
2	2	-824 555 822 666 74804 6875	-534	1 024
4	4	24 074 250 620 219 60449 21875	15 591	
6	6	-271 380 777 051 172 85156 25	-175 52	
8	8	1 548 247 159 475 373 77929 6875	1 002 678	
10	10	-5 062 025 400 952 539 55078 125	-3 278 276	
12	12	10 064 136 167 015 350 34779 6875	6 517 750	
14	14	-12 382 357 877 210 610 35156 25	-8 019 080	
16	16	9 213 196 102 135 293 82324 21875	5 966 663	
18	18	-3 800 773 079 350 072 99804 6875	-2 461 462	
20	20	667 703 378 804 742 55371 09375	432 419	

P_{22}^2	k	a_k	b_k	Numerator Denominator
0	0	-9 595 553 313 53759 76562 5	-3	203 067 496 256 625
2	2	2 120 617 282 291 80908 20312 5	663	32 768
4	4	-77 100 270 874 274 59716 79687 5	-24 105	
6	6	1 089 047 323 319 949 64599 60937 5	340 485	
8	8	-7 864 611 451 308 550 41503 90625	-2 458 850	
10	10	35 398 485 903 784 06738 8125	10 333 974	
12	12	-145 033 263 423 686 943 23730 64875	-42 362 410	
14	14	152 304 968 538 379 980 77782 57812 5	48 867 935	
16	16	-104 576 280 180 380 145 53884 76562 5	-32 695 235	
18	18	39 559 590 844 239 225 03662 10937 5	12 368 101	
20	20	-6 467 917 894 685 500 67138 67187 5	-2 022 161	
22	22			

P_{24}^2	k	a_k	b_k	Numerator Denominator
0	0	18 591 384 544 57009 54589 84375	-804	11 945 146 838 625
2	2	-4 982 491 058 054 30758 30078 125	35 526	32 768
4	4	220 159 175 781 642 4484 62929 6875	-512 756	
6	6	-3 797 327 476 081 592 77725 21972 65625	5 445 069	
8	8	33 743 730 550 485 855 85547 85156 25	-28 483 400	
10	10	-174 515 280 849 485 855 85547 85156 25	94 283 476	
12	12	584 386 786 184 435 832 40295 41015 625	-205 160 264	
14	14	-1 271 404 453 791 443 699 51547 85156 25	297 520 589	
16	16	1 843 773 220 715 892 491 21475 21972 65625	-284 813 716	
18	18	-1 765 027 105 946 821 773 33068 84765 625	172 862 150	
20	20	1 071 248 901 307 286 048 5981 52928 6875	-60 273 444	
22	22	-373 522 236 418 087 663 77258 30078 125	5 197 571	
24	24	56 998 526 446 915 974 66654 54589 84375		

P_{26}^2	k	a_k	b_k	Numerator Denominator
0	0	613 515 689 984 31015 01644 84375	1 683	11 945 146 838 625
2	2	-59 715 527 158 472 85463 42578 125	-163 812	32 768
4	4	1 715 768 879 656 120 71990 96679 6875	4 705 780	
6	6	-22 803 969 186 256 818 74084 47265 625	-62 555 988	
8	8	169 335 170 392 779 477 66494 75097 65625	464 521 277	
10	10	-775 851 544 937 954 989 65454 10156 25	-2 128 320 712	
12	12	2 318 721 967 170 596 307 26623 53615 625	6 360 732 308	
14	14	-4 652 067 372 076 993 184 96704 10156 25	-12 761 579 720	
16	16	6 315 599 423 670 257 885 86807 25097 65625	17 324 991 037	
18	18	-5 724 773 151 874 062 189 83459 47265 625	-15 704 232 788	
20	20	3 319 040 602 589 752 987 90740 96679 6875	9 104 817 518	
22	22	-1 113 147 692 963 300 211 13586 42578 125	-3 053 593 572	
24	24	164 289 870 346 993 103 45077 51464 84375	4 450 680 579	

P_{28}^2	k	a_k	b_k	Numerator Denominator
0	0	24 094 434 370 292 90771 48437 5	-3	203 067 496 256 625
2	2	-574 399 416 901 674 13330 07812 5	243	32 768
4	4	6 299 950 932 449 796 20361 32812 5	-5 793	
6	6	-38 289 129 989 973 533 56933 59375	63 537	
8	8	141 882 109 447 513 371 45996 09375	-386 158	
10	10	-337 131 903 714 461 935 18066 40625	1 430 926	
12	12	524 327 221 548 213 834 4773 50625	-3 400 682	
14	14	-338 587 980 856 034 667 93701 7187 5	5 280 793	
16	16	122 890 439 895 024 512 75634 76562 5	-3 414 763	
18	18	-19 403 753 884 056 502 01416 01562 5	1 239 389	
20	20		-1 195 693	
22	22			

P_{30}^2	k	a_k	b_k	Numerator Denominator
0	0	297 462 152 719 66552 73437 5	-3	203 067 496 256 625
2	2	24 094 434 370 292 90771 48437 5	243	32 768
4	4	-574 399 416 901 674 13330 07812 5	-5 793	
6	6	6 299 950 932 449 796 20361 32812 5	63 537	
8	8	-38 289 129 989 973 533 56933 59375	-386 158	
10	10	141 882 109 447 513 371 45996 09375	1 430 926	
12	12	-337 131 903 714 461 935 18066 40625	-3 400 682	
14	14	524 327 221 548 213 834 4773 50625	5 280 793	
16	16	-338 587 980 856 034 667 93701 7187 5	-3 414 763	
18	18	122 890 439 895 024 512 75634 76562 5	1 239 389	
20	20	-19 403 753 884 056 502 01416 01562 5	-1 195 693	
22	22			

TABLE 1 (Continued)

P_9 Numerator Denominator		P_{10} Numerator Denominator		P_{11} Numerator Denominator		P_{12} Numerator Denominator		P_{13} Numerator Denominator	
k	a_k	k	a_k	k	a_k	k	a_k	k	a_k
0	34 459 425	1	654 729 075	0	-327 364 537.5	1	-6 874 655 287.5	1	-164 705 282 929.6875
1	-137 837 760	2	-2 618 916 300	1	8 184 113 437.5	2	80 204 311 687.5	2	5 105 863 770 725.2375
2	207 735 700	3	3 928 374 450	2	-29 462 808 375	3	-252 070 693 875	3	-444 569 249 560 773.2375
3	-137 835 700	4	-2 618 916 300	3	42 557 389 875	4	343 732 764 375	4	168 587 621 871 529.2625
4	34 459 425	5	654 729 075	4	-27 825 985 687.5	5	-217 697 417 437.5	5	-325 049 365 154 860.9375
5	-137 837 760	6	-2 618 916 300	5	6 874 655 287.5	6	52 705 690 537.5	6	-138 093 166 169 257.8125
6	207 735 700	7	3 928 374 450	6	-327 364 537.5	7	-6 874 655 287.5	7	38 075 155 548 117.1875
7	-137 835 700	8	-2 618 916 300	7	8 184 113 437.5	8	80 204 311 687.5	8	-164 705 282 929.6875
8	34 459 425	9	654 729 075	8	-29 462 808 375	9	-252 070 693 875	9	5 105 863 770 725.2375
9	-137 837 760	10	-2 618 916 300	9	42 557 389 875	10	343 732 764 375	10	-444 569 249 560 773.2375
10	207 735 700	11	3 928 374 450	10	-27 825 985 687.5	11	-217 697 417 437.5	11	168 587 621 871 529.2625
11	-137 835 700	12	-2 618 916 300	11	6 874 655 287.5	12	52 705 690 537.5	12	-325 049 365 154 860.9375
12	34 459 425	13	654 729 075	12	-327 364 537.5	13	-6 874 655 287.5	13	-138 093 166 169 257.8125
13	-137 837 760	14	-2 618 916 300	13	8 184 113 437.5	14	80 204 311 687.5	14	38 075 155 548 117.1875
14	207 735 700	15	3 928 374 450	14	-29 462 808 375	15	-252 070 693 875	15	-164 705 282 929.6875
15	-137 835 700	16	-2 618 916 300	15	42 557 389 875	16	343 732 764 375	16	5 105 863 770 725.2375
16	34 459 425	17	654 729 075	16	-27 825 985 687.5	17	-217 697 417 437.5	17	-444 569 249 560 773.2375
17	-137 837 760	18	-2 618 916 300	17	6 874 655 287.5	18	52 705 690 537.5	18	168 587 621 871 529.2625
18	207 735 700	19	3 928 374 450	18	-327 364 537.5	19	-6 874 655 287.5	19	-325 049 365 154 860.9375
19	-137 835 700	20	-2 618 916 300	19	8 184 113 437.5	20	80 204 311 687.5	20	-138 093 166 169 257.8125
20	34 459 425	21	654 729 075	20	-29 462 808 375	21	-252 070 693 875	21	38 075 155 548 117.1875
21	-137 837 760	22	-2 618 916 300	21	42 557 389 875	22	343 732 764 375	22	-164 705 282 929.6875
22	207 735 700	23	3 928 374 450	22	-27 825 985 687.5	23	-217 697 417 437.5	23	5 105 863 770 725.2375
23	-137 835 700	24	-2 618 916 300	23	6 874 655 287.5	24	52 705 690 537.5	24	-444 569 249 560 773.2375
24	34 459 425	25	654 729 075	24	-327 364 537.5	25	-6 874 655 287.5	25	168 587 621 871 529.2625
25	-137 837 760	26	-2 618 916 300	25	8 184 113 437.5	26	80 204 311 687.5	26	-325 049 365 154 860.9375
26	207 735 700	27	3 928 374 450	26	-29 462 808 375	27	-252 070 693 875	27	-138 093 166 169 257.8125
27	-137 835 700	28	-2 618 916 300	27	42 557 389 875	28	343 732 764 375	28	38 075 155 548 117.1875
28	34 459 425	29	654 729 075	28	-27 825 985 687.5	29	-217 697 417 437.5	29	-164 705 282 929.6875
29	-137 837 760	30	-2 618 916 300	29	6 874 655 287.5	30	52 705 690 537.5	30	5 105 863 770 725.2375
30	207 735 700	31	3 928 374 450	30	-327 364 537.5	31	-6 874 655 287.5	31	-444 569 249 560 773.2375
31	-137 835 700	32	-2 618 916 300	31	8 184 113 437.5	32	80 204 311 687.5	32	168 587 621 871 529.2625
32	34 459 425	33	654 729 075	32	-29 462 808 375	33	-252 070 693 875	33	-325 049 365 154 860.9375
33	-137 837 760	34	-2 618 916 300	33	42 557 389 875	34	343 732 764 375	34	-138 093 166 169 257.8125
34	207 735 700	35	3 928 374 450	34	-27 825 985 687.5	35	-217 697 417 437.5	35	38 075 155 548 117.1875
35	-137 835 700	36	-2 618 916 300	35	6 874 655 287.5	36	52 705 690 537.5	36	-164 705 282 929.6875
36	34 459 425	37	654 729 075	36	-327 364 537.5	37	-6 874 655 287.5	37	5 105 863 770 725.2375
37	-137 837 760	38	-2 618 916 300	37	8 184 113 437.5	38	80 204 311 687.5	38	-444 569 249 560 773.2375
38	207 735 700	39	3 928 374 450	38	-29 462 808 375	39	-252 070 693 875	39	168 587 621 871 529.2625
39	-137 835 700	40	-2 618 916 300	39	42 557 389 875	40	343 732 764 375	40	-325 049 365 154 860.9375
40	34 459 425	41	654 729 075	40	-27 825 985 687.5	41	-217 697 417 437.5	41	-138 093 166 169 257.8125
41	-137 837 760	42	-2 618 916 300	41	6 874 655 287.5	42	52 705 690 537.5	42	38 075 155 548 117.1875
42	207 735 700	43	3 928 374 450	42	-327 364 537.5	43	-6 874 655 287.5	43	-164 705 282 929.6875
43	-137 835 700	44	-2 618 916 300	43	8 184 113 437.5	44	80 204 311 687.5	44	5 105 863 770 725.2375
44	34 459 425	45	654 729 075	44	-29 462 808 375	45	-252 070 693 875	45	-444 569 249 560 773.2375
45	-137 837 760	46	-2 618 916 300	45	42 557 389 875	46	343 732 764 375	46	168 587 621 871 529.2625
46	207 735 700	47	3 928 374 450	46	-27 825 985 687.5	47	-217 697 417 437.5	47	-325 049 365 154 860.9375
47	-137 835 700	48	-2 618 916 300	47	6 874 655 287.5	48	52 705 690 537.5	48	-138 093 166 169 257.8125
48	34 459 425	49	654 729 075	48	-327 364 537.5	49	-6 874 655 287.5	49	38 075 155 548 117.1875
49	-137 837 760	50	-2 618 916 300	49	8 184 113 437.5	50	80 204 311 687.5	50	-164 705 282 929.6875
50	207 735 700	51	3 928 374 450	50	-29 462 808 375	51	-252 070 693 875	51	5 105 863 770 725.2375
51	-137 835 700	52	-2 618 916 300	51	42 557 389 875	52	343 732 764 375	52	-444 569 249 560 773.2375
52	34 459 425	53	654 729 075	52	-27 825 985 687.5	53	-217 697 417 437.5	53	168 587 621 871 529.2625
53	-137 837 760	54	-2 618 916 300	53	6 874 655 287.5	54	52 705 690 537.5	54	-325 049 365 154 860.9375
54	207 735 700	55	3 928 374 450	54	-327 364 537.5	55	-6 874 655 287.5	55	-138 093 166 169 257.8125
55	-137 835 700	56	-2 618 916 300	55	8 184 113 437.5	56	80 204 311 687.5	56	38 075 155 548 117.1875
56	34 459 425	57	654 729 075	56	-29 462 808 375	57	-252 070 693 875	57	-164 705 282 929.6875
57	-137 837 760	58	-2 618 916 300	57	42 557 389 875	58	343 732 764 375	58	5 105 863 770 725.2375
58	207 735 700	59	3 928 374 450	58	-27 825 985 687.5	59	-217 697 417 437.5	59	-444 569 249 560 773.2375
59	-137 835 700	60	-2 618 916 300	59	6 874 655 287.5	60	52 705 690 537.5	60	168 587 621 871 529.2625
60	34 459 425	61	654 729 075	60	-327 364 537.5	61	-6 874 655 287.5	61	-325 049 365 154 860.9375
61	-137 837 760	62	-2 618 916 300	61	8 184 113 437.5	62	80 204 311 687.5	62	-138 093 166 169 257.8125
62	207 735 700	63	3 928 374 450	62	-29 462 808 375	63	-252 070 693 875	63	38 075 155 548 117.1875
63	-137 835 700	64	-2 618 916 300	63	42 557 389 875	64	343 732 764 375	64	-164 705 282 929.6875
64	34 459 425	65	654 729 075	64	-27 825 985 687.5	65	-217 697 417 437.5	65	5 105 863 770 725.2375
65	-137 837 760	66	-2 618 916 300	65	6 874 655 287.5	66	52 705 690 537.5	66	-444 569 249 560 773.2375
66	207 735 700	67	3 928 374 450	66	-327 364 537.5	67	-6 874 655 287.5	67	168 587 621 871 529.2625
67	-137 835 700	68	-2 618 916 300	67	8 184 113 437.5	68	80 204 311 687.5	68	-325 049 365 154 860.9375
68	34 459 425	69	654 729 075	68	-29 462 808 375	69	-252 070 693 875	69	-138 093 166 169 257.8125
69	-137 837 760	70	-2 618 916 300	69	42 557 389 875	70	343 732 764 375	70	38 075 155 548 117.1875
70	207 735 700	71	3 928 374 450	70	-27 825 985 687.5	71	-217 697 417 437.5	71	-164 705 282 929.6875
71	-137 835 700	72	-2 618 916 300	71	6 874 655 287.5	72	52 705 690 537.5	72	5 105 863 770 725.2375
72	34 459 425	73	654 729 075	72	-327 364 537.5	73	-6 874 655 287.5	73	-444 569 249 560 773.2375
73	-137 837 760	74	-2 618 916 300	73	8 184 113 437.5	74	80 204 311 687.5	74	168 587 621 871 529.2625
74	207 735 700	75	3 928 374 450	74	-29 462 808 375	75	-252 070 693 875	75	-325 049 365 154 860.9375
75	-137 835 700	76	-2 618 916 300	75	42 557 389 875	76	343 732 764 375	76	-138 093 166 169 257.8125
76	34 459 425	77	654 729 075	76	-27 825 985 687.5	77	-217 697 417 437.5	77	38 075 155 548 117.1875
77	-137 837 760	78	-2 618 916 300	77	6 874 655 287.5	78	52 705 690 537.5	78	-164 705 282 929.6875
78	207 735 700	79	3 928 374 450	78	-327 364 537.5	79	-6 874 655 287.5	79	5 105 863 770 725.2375
79	-137 835 700	80	-2 618 916 300	79	8 184 113 437.5	80	80 204 311 687.5	80	-444 569 249 560 773.2375
80	34 459 425	81	654 729 075	80	-29 462 808 375	81	-252 070 693 875	81	168 587 621 871 529.2625
81	-137 837 760	82	-2 618 916 300	81	42 557 389 875	82	343 732 764 375	82	-325 049 365 154 860.9375
82	207 735 700	83	3 928 374 450	82	-27 825 985 687.5	83	-217 697 417 437.5	83	-138 093 166 169 257.8125
83	-137 835 700	84	-2 618 916 300	83	6 874 655 287.5	84	52 705 690 537.5	84	38 075 155 548 117.1875
84	34 459 425	85	654 729 075	84	-327 364 537.5	85	-6 874 655 287.5	85	-164 705 282 929.6875

P ₂₀		P ₂₁		P ₂₂		P ₂₃		P ₂₄		
k	Numerator Denominator	k	Numerator Denominator	k	Numerator Denominator	k	Numerator Denominator	k	Numerator Denominator	
1	-1 612 052 956 674 -31 640 625	0	134 337 746 389 52636 71875	0	0	0	613 515 689 984 31015 01464 84375	0	0	
2	89 737 614 588 203 61328 125	2	-75 171 816 010 100976 5625	2	2	-174 238 1655 544 08264 16015 625	2	8 106 178 306 532 695 24383 54492 1875	2	8 106 178 306 532 695 24383 54492 1875
3	-1 442 250 045 237 955 07812 5	4	-8 052	4	4	-2 681 621 306 767 784 72900 39062 5	4	-146 374 209 358 266 673 78234 66285 15625	4	-146 374 209 358 266 673 78234 66285 15625
5	10 400 965 676 462 689 45312 5	6	58 068	6	6	35 694 836 969 675 766 29638 67187 5	6	1 354 838 354 950 461 806 461 33 42285 15625	6	1 354 838 354 950 461 806 461 33 42285 15625
7	-40 219 288 333 062 706 45568 75	8	-224 542	8	8	-298 607 382 007 636 239 62402 34375	8	25 122 076 398 311 794 406 02111 81640 625	8	25 122 076 398 311 794 406 02111 81640 625
9	90 674 396 473 026 577 14843 75	10	506 230	10	10	1 300 384 951 904 984 380 00488 28125	10	-56 252 544 018 696 084 904 81567 38281 25	10	-56 252 544 018 696 084 904 81567 38281 25
11	-122 935 158 475 983 369 14062 5	12	-686 340	12	12	-3 507 976 124 725 560 891 72363 28125	12	81 933 966 910 402 251 129 95910 54453 125	12	81 933 966 910 402 251 129 95910 54453 125
13	98 770 126 421 444 994 14062 5	14	551 428	14	14	6 046 274 217 069 956 376 34277 34375	14	-28 901 711 788 237 251 149 71084 59472 65625	14	-28 901 711 788 237 251 149 71084 59472 65625
15	-4 349 357 823 938 670 41015 625	16	-44 733	16	16	-6 667 770 320 841 480 619 81201 17187 5	16	-18 011 534 357 225 447 994 64416 50396 625	16	-18 011 534 357 225 447 994 64416 50396 625
17	8 012 440 545 656 910 64453 125	18	44 733	18	18	4 552 361 280 992 015 763 24462 89062 5	18	2 752 805 749 459 770 681 94580 07812 5	18	2 752 805 749 459 770 681 94580 07812 5
19		19		19	19	291 056 305 260 847 530 21240 23437 5	19	291 056 305 260 847 530 21240 23437 5	19	291 056 305 260 847 530 21240 23437 5
20		20		20	20		20		20	

TABLE 1 (Continued)

P ¹⁰ ₁₁				P ¹⁰ ₁₂				P ¹⁰ ₁₃			
Numerator Denominator				Numerator Denominator				Numerator Denominator			
k	a _k	b _k	c _k	k	a _k	b _k	c _k	k	a _k	b _k	c _k
0	654 729 075	1	1	0	-6 874 655 287.5	-1	1	1	-158 117 071 612.5	-3	1
2	-3 273 645 375	-5	3	2	192 490 348 059	28	2	3	2 108 227 621 500	40	3
4	6 547 290 750	10	5	4	-859 331 910 937.5	-125	4	5	-8 169 382 033 312.5	-155	5
6	-9 547 290 750	-10	7	6	1 649 917 269 000	240	6	7	14 757 593 350 500	280	7
8	3 273 645 375	5	9	8	-1 615 543 992 582.5	-235	8	9	-13 967 007 992 437.5	-265	9
10	-654 729 075	-1	11	10	799 460 013 350	116	10	11	6 746 328 388 800	128	11
				12	-158 117 071 612.5	-23	12	13	-1 317 642 263 437.5	-25	13

P ¹⁰ ₁₄				P ¹⁰ ₁₅				P ¹⁰ ₁₆			
Numerator Denominator				Numerator Denominator				Numerator Denominator			
k	a _k	b _k	c _k	k	a _k	b _k	c _k	k	a _k	b _k	c _k
0	34 529 267 903.125	1	1	1	988 231 697 578.125	5	5	0	-164 705 282 929 687.5	5	5
2	-2 174 109 734 671.875	-55	3	3	-22 729 329 044 296.875	-115	3	2	14 643 332 929 687.5	420	420
4	15 171 694 933 015.625	465	5	5	750 408 864 371 390.625	761	5	4	-197 316 938 949 752.625	-5 990	430
6	-174 903 133 073 109.375	-1 635	7	7	-445 692 495 607 734.375	-2 255	7	6	1 046 405 603 509 890.625	37 766	37 766
8	48 862 899 925 715.625	2 755	9	9	698 679 810 187 734.375	3 535	9	8	-2 759 597 915 111 550	-83 680	83 680
10	-8 894 065 278 203.125	-1 175	11	11	-605 786 030 615 390.625	-3 065	11	10	4 021 773 556 577 109.375	122 090	122 090
12			13	13	275 716 643 625 296.875	1 395	13	12	-3 323 423 158 955 234.375	-100 690	100 690
			15	15	-51 585 694 613 578.125	-261	15	14	1 461 594 680 718 046.875	44 370	44 370
								16	-266 526 088 836 820.3125	-9 091	9 091

P ¹⁰ ₁₇				P ¹⁰ ₁₈				P ¹⁰ ₁₉			
Numerator Denominator				Numerator Denominator				Numerator Denominator			
k	a _k	b _k	c _k	k	a _k	b _k	c _k	k	a _k	b _k	c _k
1	447 042 934 131 5625	-35	1	1	555 880 329 697 695.31 25	5	5	1	16 120 529 566 743.184.06 25	45	45
3	-1 154 159 875 271 231.125	-1 100	3	3	-67 261 519 916 411 132.61 25	-205	3	3	-746 917 869 825 766.60156 25	-2 085	2 085
5	10 853 841 251 373 440.625	51 254	5	5	-10 555 442 227 771 816 430.25	-11 360	5	5	11 089 302 104 836 988.2812 25	28 164	28 164
7	-10 853 841 251 373 440.625	-51 254	7	7	38 127 831 826 987 031 784.32 5	342 360	7	7	-61 795 363 339 182 128.9062 5	-172 500	172 500
9	1 304 854 231 292 109.375	166 930	9	9	-81 760 002 372 417 956.984.37 5	-732 690	9	9	205 750 184 783 677 685.54687 5	572 950	572 950
11	-1 304 854 231 292 109.375	-166 930	11	11	104 009 656 764 627 864 531.25	935 640	11	11	-102 192 883 330 627 066.50625	-1 122 710	1 122 710
13	1 361 976 931 949 796.875	55 738	13	13	-77 956 860 984 764 941 40.25	-701 220	13	13	40 924 854 627 445 878.50625	1 338 580	1 338 580
15	-1 361 976 931 949 796.875	-55 738	15	15	31 883 163 377 104 629.88281 25	266 761	15	15	-32 380 158 716 147 224.70125	-956 684	956 684
17	1 250 440 133 087 857.1875	-9 889	17	17	-5 497 100 562 259 418.94.531 25	-49 445	17	19	13 380 158 716 147 224.70125	376 085	376 085
									-22 599 131 282 622 055.664.06 25	-63 085	63 085

TABLE 1 (Continued)

TABLE 1 (Continued)

P_{11}^{11}	Numerator	13 749 310 575	
k	Denominator		
0	13 749 310 575	a_k	b_k
2	-68 742 552 875		
4	137 483 105 750		
6	-137 483 105 750		
8	68 742 552 875		
10	-13 749 310 575		

P_{12}^{11}	Numerator	316 234 143 225	
k	Denominator		
1	316 234 143 225	a_k	b_k
3	-1 581 170 716 125		
5	3 162 341 432 250		
7	-3 162 341 432 250		
9	1 581 170 716 125		
11	-316 234 143 225		

P_{13}^{11}	Numerator	316 234 143 225	
k	Denominator		
0	-158 117 071 612.5	a_k	b_k
2	4 743 512 148 375		
4	-21 345 804 667 687.5		
6	41 110 438 619 250		
8	-40 319 853 261 187.5		
10	19 922 751 023 175		
12	-3 952 926 790 312.5		

P_{14}^{11}	Numerator	7 905 853 580 625	
k	Denominator		
1	-3 952 926 790 312.5	a_k	b_k
3	55 340 975 064 375		
5	-217 410 973 467 187.5		
7	395 292 679 031 250		
9	-375 528 045 079 687.5		
11	181 834 632 354 375		
13	-35 576 341 112 812.5		

P_{15}^{11}	Numerator	7 905 853 580 625	
k	Denominator		
0	988 231 697 578 125	a_k	b_k
2	-58 305 670 157 109 375		
4	534 633 348 389 765 625		
6	-1 833 169 799 007 421 875		
8	3 117 871 005 878 984 375		
10	-2 847 095 520 722 578 125		
12	1 313 006 877 068 671 875		
14	-257 928 473 067 890 625		

P_{16}^{11}	Numerator	14 230 536 445 125	
k	Denominator		
1	26 682 255 834 608 375	a_k	b_k
3	-642 268 225 308 828 125		
5	442 193 862 845 321 875		
7	-13 437 174 845 008 073 625		
9	21 253 574 870 703 187 5		
11	-18 597 638 316 722 734 125		
13	8 511 638 641 240 380 625		
15	-1 599 156 533 020 921 875		

P_{17}^{11}	Numerator	14 230 536 445 125	
k	Denominator		
0	-447 042 639 101 5625	a_k	b_k
2	409 127 972 792 343 75		
4	-5 972 825 326 927 600 75		
6	32 698 215 116 782 968 75		
8	-87 846 880 292 813 255 625		
10	129 871 433 232 322 031 25		
12	-108 329 958 688 514 062 5		
14	47 974 695 990 627 656 25		
16	-8 795 360 931 615 070 3125		

P_{18}^{11}	Numerator	412 685 556 908 625	
k	Denominator		
1	-128 964 236 533 945 3125	a_k	b_k
3	4 642 712 515 222 031 25		
5	-47 665 181 832 946 187 5		
7	217 175 774 323 163 906 25		
9	-524 368 585 717 021 640 625		
11	723 747 295 428 501 093 75		
13	-575 696 351 887 531 875		
15	246 270 106 085 221 968 75		
17	-43 976 804 658 075 351 5625		

P_{19}^{11}	Numerator	2 063 427 784 543 125	
k	Denominator		
0	16 120 529 566 743 164 06 25	a_k	b_k
2	-2 079 548 314 109 868 164 06 25		
4	43 138 537 120 604 707 031 25		
6	-338 982 495 729 475 253 906 25		
8	1 322 862 897 306 077 529 296 87 5		
10	-3 925 988 654 547 142 451 171 87 5		
12	2 930 027 341 602 681 035 156 25		
14	-2 836 883 500 445 860 175 781 25		
16	1 176 882 24 021 256 235 351 56 25		
18	-203 392 721 543 598 500 97 656 25		

TABLE 1 (Continued)

TABLE 1 (Continued)

P_{12}^{12}			P_{12}^{13}			P_{12}^{14}			P_{12}^{15}		
Numerator Denominator			Numerator Denominator			Numerator Denominator			Numerator Denominator		
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
0	316 234 143 225.	1	1	7 905 853 580 625.	1	0	-3 952 926 790 312.5	-1	1	-106 729 023 338 437.5	-3
2	-1 897 404 859 350.	-6	2	-47 345 401 783 730.	-6	2	130 446 584 080 312.5	33	3	1 672 088 032 302 187.5	47
4	4 743 512 448 375.	15	4	118 585 401 783 730.	15	4	-699 668 041 885 312.5	-177	5	-7 791 218 703 705 937.5	-219
6	-6 324 682 868 590.	-20	6	-118 117 073 673 500.	-20	6	1 679 993 885 882 812.5	425	7	17 610 288 850 842 187.5	495
8	4 743 512 448 375.	15	8	118 587 803 706 375.	15	8	-2 193 874 368 623 437.5	-555	9	-22 235 213 195 507 812.5	-625
10	-1 897 404 859 350.	-6	10	-47 345 401 783 730.	-6	10	1 624 652 910 818 437.5	411	11	16 116 082 524 104 062.5	453
12	316 234 143 225.	1	12	7 905 853 580 625.	1	12	-644 377 066 820 937.5	-163	13	-6 297 012 376 967 812.5	-177
			13	7 905 853 580 625.	1	14	106 729 023 338 437.5	-27	15	1 031 713 892 271 562.5	29

P_{12}^{16}			P_{12}^{17}			P_{12}^{18}			P_{12}^{19}		
Numerator Denominator			Numerator Denominator			Numerator Denominator			Numerator Denominator		
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
0	26 682 255 834 609.375	3	1	773 785 419 203 671.875	15	0	-128 964 236 533 945.3125	-1	0	-128 964 236 533 945.3125	-1
2	-1 707 664 373 415 000.	-192	3	-20 634 277 845 431 250.	-108	2	12 767 459 416 860 565.9375	89	2	12 767 459 416 860 565.9375	89
4	17 681 441 533 067 812.5	1 988	5	160 328 328 852 400 812.5	3 108	4	-205 826 921 508 176 406.75	-9	4	-205 826 921 508 176 406.75	-9
6	-71 721 903 683 430 000.	-8 064	7	-571 362 191 735 354 500.	-11 088	6	281 584 518 417 703 006.625	39	6	281 584 518 417 703 006.625	39
8	151 288 390 582 235 156.25	17 010	9	1 123 020 261 221 728 750.	25	8	-467 629 343 733 165 380.625	-57	8	-467 629 343 733 165 380.625	-57
10	-183 289 399 413 210 000.	-20 608	11	-1 888 302 261 221 728 750.	-25 200	10	8 207 529 863 960 415 428.75	123	10	8 207 529 863 960 415 428.75	123
12	129 248 847 262 817 812.5	14 532	13	-332 621 558 868 351 750.	-6 448	12	-421 140 642 940 925 156.25	-42	12	-421 140 642 940 925 156.25	-42
14	-49 522 266 829 035 000.	-5 568	15	32 772 155 589 690 421.875	1 023	14	978 856 209 613 390 820.3125	15	14	978 856 209 613 390 820.3125	15
16	7 995 782 665 104 609.375	899	17			16	307 837 632 606 527 460.9375	2	16	307 837 632 606 527 460.9375	2

P_{12}^{20}			P_{12}^{21}			P_{12}^{22}			P_{12}^{23}		
Numerator Denominator			Numerator Denominator			Numerator Denominator			Numerator Denominator		
k	a_k	b_k	k	a_k	b_k	k	a_k	b_k	k	a_k	b_k
1	-3 997 891 332 552 304.6875	-1	1	499 736 416 569 038 08593 75	1	1	16 491 301 746 778 356 83593 75	9	1	16 491 301 746 778 356 83593 75	9
3	155 317 761 969 539 882.8125	39	2	-68 963 626 486 527 255 85937 75	-138	3	-868 548 891 996 988 153 36937 75	-474	3	-868 548 891 996 988 153 36937 75	-474
5	-1 775 063 751 653 223 281.25	-444	4	1 557 628 410 445 261 713 86718 75	3 117	5	-94 807 928 247 468 533 320 3125	7 317	5	-94 807 928 247 468 533 320 3125	7 317
7	9 227 133 195 530 719 218.75	2 308	6	-13 620 815 770 005 702 070 31.25	-27 256	7	370 288 353 954 715 962 455 54687 5	202 082	7	370 288 353 954 715 962 455 54687 5	202 082
9	-26 314 120 750 859 269 453.125	-6 582	8	60 744 960 379 632 855 498 04687 5	1 21 554	9	-375 208 353 954 715 962 455 54687 5	-714 594	9	-375 208 353 954 715 962 455 54687 5	-714 594
11	44 880 328 099 232 172 421.875	11 226	10	-157 099 138 858 309 088 847 65625	-501 458	11	305 398 384 493 029 073 935 54687 5	682 552	11	305 398 384 493 029 073 935 54687 5	682 552
13	-47 191 109 289 447 404 531.25	-11 804	12	250 556 823 979 876 700 498 20687 5	502 392	12	-375 208 353 954 715 962 455 54687 5	-714 594	12	-375 208 353 954 715 962 455 54687 5	-714 594
15	30 080 134 386 123 540 468.75	7 524	14	-251 063 577 792 952 182 070 31.25	-308 781	13	1 250 685 665 540 776 973 320 3125	404 373	13	1 250 685 665 540 776 973 320 3125	404 373
17	-10 686 363 531 912 310 429.6875	-2 673	15	154 409 110 444 604 149 213 86718 75	15 873	14	-248 545 905 226 277 368 193 35937 5	-135 542	14	-248 545 905 226 277 368 193 35937 5	-135 542
19	1 627 141 772 348 788 007.8125	407	16	7 932 316 140 200 341 538 08593 75	15 873	15	36 136 106 860 912 667 006 83593 75	19 721	15	36 136 106 860 912 667 006 83593 75	19 721

TABLE 1 (Continued)

P_{33}^{12}	k	Numerator Denominator		a_k	b_k
		46	908 591 635 280 375 256		
0	0	-1	649	130 174	677 825 68359 375
2	2	298	492 561 616 686	448 73046 875	-9
4	4	-8	875 068 890 057 831	887 20703 125	-1 629
6	6	102	600 630 817 580 924	904 78515 625	-48 435
8	8	-608	347 530 136 903 116	420 89843 75	559 935
10	10	2 110	567 106 037 698 648	870 11718 75	-3 320 010
12	12	-4 528	537 144 275 175 254	875 97656 25	11 518 802
14	14	6 528	537 144 275 175 254	875 97656 25	-35 052 502
16	16	-887	766 176 292 534	677 683 10546 875	35 249 070
18	18	3 361	970 920 684 911	821 692 08984 375	-32 128 765
20	20	-1 094	314 039 685 852	810 907 12890 225	18 347 745
22	22	155	365 259 501 524	468 129 39453 25	-5 975 463
24	24				848 003

P_{33}^{12}	k	Numerator Denominator		a_k	b_k
		21	322 087 106 945 625 256		
1	1	-57	719 556 113 723	898 22578 125	-693
3	3	3 905	689 563 695 317	160 64453 125	46 893
5	5	-77	748 242 085 186	051 053 02734 375	-933 471
7	7	712	577 728 164 097	432 345 99609 375	8 259 825
9	9	-3	913 524 508 801	907 851 000 82531 25	-12 920 088
11	11	11 839	702 73 740 558 894	888 80718 75	270 020 090
13	13	-21	839 702 67 753	849 987 90468 75	343 655 166
15	15	20	288 104 859 508	841 638 516 06640 625	-116 565 269
17	17	-26	374 104 859 508	841 638 516 06640 625	174 353 361
19	19	14	521 787 431 513	136 701 66015 625	-156 120 195
21	21	-4	590 828 171 547	768 376 550 2926 875	7 632 027
23	23	635	866 970 689 691	305 983 88671 875	

P_{34}^{12}	k	Numerator Denominator		a_k	b_k
		63	966 261 320 836 875 1 024		
0	0	-1	0	109 963 009 476	991 57714 84375
2	2	41	1 532	287 142 001	883 54492 1875
4	4	-203	702 796	601 589 890	729 98046 875
6	6	4 586	945 832 242	815 698 799	43847 65625
8	8	-20	386 230 534 92	313 702 05468 75	955 344 140
10	10	27	803 370 272 102	382 285 25388 525	-1 732 803 240
12	12	-108	243 310 272 102	382 285 25388 525	2 816 697 523
14	14	135	803 370 272 102	382 285 25388 525	-1 961 632 002
16	16	-113	104 371 924 345	268 064 477 25632 1875	39 856 141
18	18	60	070 528 730 175	800 065 477 25632 1875	
20	20	-18	434 342 150 001	039 173 532 71484 375	
22	22	2 489	695 635 201 289	773 436 88964 84375	
24	24				

P_{35}^{12}	k	Numerator Denominator		a_k	b_k
		2	366 751 668 870 964 375 1 024		
1	1	177	968 631 350 648	688 35449 21875	-6 468
3	3	-14	949 365 033 354	489 671 77734 375	160 814
5	5	210	530 619 072 920	599 124 03273 875	-1 830 394
7	7	-4	773 872 613 479	032 478 257 7070 96125	16 832 320
9	9	27	713 116 223 102	353 874 897 30428 76125	121 612 340
11	11	-108	243 116 223 102	353 874 897 30428 76125	-212 812 488
13	13	281	087 215 727 841	553 360 891 05078 125	243 064 259
15	15	-91	869 445 463 459	063 112 476 98218 75	-201 849 386
17	17	584	902 595 038 910	123 217 551 87988 28125	103 463 478
19	19	-166	530 659 026 949	376 007 037 16796 875	-30 824 292
21	21	239	133 024 627 533	374 212 630 61523 4375	4 060 189
23	23	-71	243 598 176 529	215 075 470 99609 375	
25	25	9	384 237 394 220	246 049 108 27636 71875	

TABLE 1 (Continued)

[illegible]

P_{16}^{13}	k	a_k	b_k	P_{17}^{13}	k	a_k	b_k	P_{18}^{13}	k	a_k	b_k
2 053 427 784 543 125	1	-3	055 180 714 637 5	6 190 283 353 629 375	1	773 785 419 203 671 875	1	191 898 783 962 510 625	1	23 987 347 995 313 626 125	1
2	2	-3	355 080 721 306 562 5	7	-52 617 498 505 408 687 5	-68	-28	2	537 165 950 950 297 500 5	2	24
3	3	-323	332 093 114 730 931 5	8	365 178 973 125 5	728	-1876	3	19 477 726 521 194 628 437 5	3	512
4	4	-471	246 924 422 570 312 5	9	-2 936 102 934 200 337 5	-2 996	-1876	4	-19 477 726 521 194 628 437 5	4	512
5	5	-471	246 924 422 570 312 5	10	-2 936 102 934 200 337 5	6 370	-1876	5	38 000 630 272 455 263 261 5	5	1876
6	6	-488	089 736 360 589 627 5	11	-6 001 478 711 313 679 062 5	-7 756	-1876	6	-30 000 264 874 208 740 522 5	6	188
7	7	-488	089 736 360 589 627 5	12	4 206 534 380 589 751 262 5	7 468	-1876	7	35 095 074 739 731 892 872 5	7	188
8	8	-139	993 925 639 325 312 5	13	-6 231 139 663 681 340 312 5	-2 108	-1876	8	-11 803 025 755 639 164 755 625	8	77
9	9	-139	993 925 639 325 312 5	14	1 631 860 827 948 452 109 375	341	-1876	9	5 371 165 950 950 297 500 5	9	24
10	10	-139	993 925 639 325 312 5	15	637 860 827 948 452 109 375	341	-1876	10	-19 477 726 521 194 628 437 5	10	512
11	11	-139	993 925 639 325 312 5	16	637 860 827 948 452 109 375	341	-1876	11	38 000 630 272 455 263 261 5	11	1876
12	12	-139	993 925 639 325 312 5	17	637 860 827 948 452 109 375	341	-1876	12	-30 000 264 874 208 740 522 5	12	188
13	13	-139	993 925 639 325 312 5	18	637 860 827 948 452 109 375	341	-1876	13	35 095 074 739 731 892 872 5	13	188
14	14	-139	993 925 639 325 312 5	19	637 860 827 948 452 109 375	341	-1876	14	-11 803 025 755 639 164 755 625	14	77
15	15	-139	993 925 639 325 312 5	20	637 860 827 948 452 109 375	341	-1876	15	5 371 165 950 950 297 500 5	15	24
16	16	-139	993 925 639 325 312 5	21	637 860 827 948 452 109 375	341	-1876	16	-19 477 726 521 194 628 437 5	16	512
17	17	-139	993 925 639 325 312 5	22	637 860 827 948 452 109 375	341	-1876	17	38 000 630 272 455 263 261 5	17	1876
18	18	-139	993 925 639 325 312 5	23	637 860 827 948 452 109 375	341	-1876	18	-30 000 264 874 208 740 522 5	18	188
19	19	-139	993 925 639 325 312 5	24	637 860 827 948 452 109 375	341	-1876	19	35 095 074 739 731 892 872 5	19	188
20	20	-139	993 925 639 325 312 5	25	637 860 827 948 452 109 375	341	-1876	20	-11 803 025 755 639 164 755 625	20	77

P^3	k	α_k	b_k	P^3	k	α_k	b_k
33 966 251	320	830 875	-1	2 110 866 623	587	616 875	16
-3 997 941	332	552 304 6875	105	2 110 866 623	587	616 875	16
178 599	312	791 234 735	-11	2 110 866 623	587	616 875	16
320 310	322	695 093 72	-11	2 110 866 623	587	616 875	16
52 280	310	523 293 72	-11	2 110 866 623	587	616 875	16
173 512	320	692 800 625	-30	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
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173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
145 431	312	613 665 380 625	-37	2 110 866 623	587	616 875	16
173 631	312	613 665 380 625	-3				

TABLE 1 (Continued)

P_{12}^3	k	Numerator Denominator		a_k	b_k
		234	542 958 176 401 875 128		
1	1	577 195 561	137 238 989 25781 25	315	
3	3	-31 338 154 382 927 224 072 26562 5		-17 430	
5	5	512 665 097 402 095 670 258 78906 25		279 783	
7	7	13 636 712 160 061 733 111 973 88732 5		-2 040 284	
9	9	-35 030 306 337 384 976 449 533 59372 5		8 150 534	
11	11	55 494 572 115 123 763 613 134 52262 5		-19 608 708	
13	13	-22 617 968 253 634 323 667 304 28362 5		33 712 848	
15	15	31 446 345 285 134 220 637 485 35156 25		-17 161 599	
17	17	-10 624 015 417 108 324 100 093 76522 5		5 797 374	
19	19	1 553 852 595 019 244 481 233 34531 25		-848 003	
21	21				
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TABLE 1 (Continued)

P ²² k	Numerator		a ₁	Denominator		P ²³ k	Numerator		a ₂	Denominator		P ²⁴ k	Numerator		a ₃	Denominator	
	2 110 886 623 587 616 875 128			b ₁			78 102 805 072 741 824 375 128			b ₂			78 102 805 072 741 824 375 128			b ₃	
0	-89	577 195 561 137 238 989 26781 25		35	1	1	21 356 235 762 077 842 602 53906 25		35	1	1	1	21 356 235 762 077 842 602 53906 25		35	1	1
2	465	311 976 272 043 334 96093 75		-5 422	3	3	-1 260 017 909 962 592 713 549 80468 75		-2 065	3	3	3	-1 260 017 909 962 592 713 549 80468 75		-2 065	3	3
4	2	275 882 097 564 133 334 643 55468 75		138 005	5	5	21 881 599 161 824 957 530 561 52343 75		35 861	5	5	5	21 881 599 161 824 957 530 561 52343 75		35 861	5	5
6	-22	580 929 303 698 836 289 946 28906 25		-1 369 263	7	7	-175 623 305 878 529 454 039 731 44531 25		-287 823	7	7	7	-175 623 305 878 529 454 039 731 44531 25		-287 823	7	7
8	115	720 354 887 437 354 743 642 57812 5		7 017 054	9	9	787 958 454 321 294 819 072 275 39062 5		1 291 358	9	9	9	787 958 454 321 294 819 072 275 39062 5		1 291 358	9	9
10	-350	429 090 775 301 977 521 318 35937 5		-21 249 354	11	11	-2 181 573 653 073 470 946 397 529 29687 5		-3 575 306	11	11	11	-2 181 573 653 073 470 946 397 529 29687 5		-3 575 306	11	11
12	672	499 090 775 301 977 521 318 35937 5		10 779 018	13	13	3 927 796 168 889 832 655 773 779 29687 5		6 437 130	13	13	13	3 927 796 168 889 832 655 773 779 29687 5		6 437 130	13	13
14	-843	764 095 919 494 620 622 705 07812 5		-51 164 190	15	15	-4 699 815 549 194 641 834 718 525 39062 5		-7 702 366	15	15	15	-4 699 815 549 194 641 834 718 525 39062 5		-7 702 366	15	15
16	692	441 774 608 154 721 839 165 03906 25		41 988 303	17	17	3 718 757 062 003 462 316 811 606 44531 25		6 094 543	17	17	17	3 718 757 062 003 462 316 811 606 44531 25		6 094 543	17	17
18	-359	088 019 350 729 261 087 612 30468 75		-21 774 389	19	19	-1 873 621 004 631 460 871 637 436 52343 75		-3 070 613	19	19	19	-1 873 621 004 631 460 871 637 436 52343 75		-3 070 613	19	19
20	106	999 012 415 162 407 007 241 21093 75		6 488 209	21	21	545 402 260 851 754 883 134 174 80468 75		893 841	21	21	21	545 402 260 851 754 883 134 174 80468 75		893 841	21	21
22	-13	984 673 355 173 202 131 645 50781 25		-848 003	23	23	-69 923 366 775 866 010 658 227 53906 25		-114 595	23	23	23	-69 923 366 775 866 010 658 227 53906 25		-114 595	23	23

P_{24}^k		Numerator, r Denominator, r		P_{25}^k		P_{26}^k	
k	b_4	a_4	b_4	a_4	b_4	a_4	b_4
0	-2 135 623 576 207 784 260 253 906 625	-7	1 414	1	-83 389 319 472 103 586 149 902 34 375	315 085 967 610 625	256
2	431 395 962 393 972 420 571 289 06 25	1 414	-47 012	3	6 274 462 068 898 470 156 625 97 656 25	17 402	256
4	-14 362 847 937 811 479 091 865 234 37 5	-47 012	610 946	5	-139 481 847 009 282 805 605 703 125	-386 848	
6	186 392 954 784 262 994 666 440 129 68 75	610 946	-4 398 947	7	1 436 994 595 010 273 272 015 034 179 68 75	3 095 454	
8	-1 253 594 869 512 606 624 686 215 332 03 125	-4 398 947	16 768 636	9	-8 306 233 624 575 175 337 679 001 164 84 375	-23 037 047	
10	4 999 923 917 641 090 343 975 795 076 2 5	16 768 636	-11 768 680	11	29 809 045 525 564 122 928 901 806 64 062 5	-82 674 400	
12	-12 741 642 805 313 930 764 897 265 49 6	-11 768 680	70 744 860	13	-70 326 977 443 472 386 218 124 511 71 875	-195 049 400	
14	21 582 569 148 684 343 578 440 771 486 3 7 5	70 744 860	-80 799 901	15	112 376 261 741 357 202 378 445 615 23 4 37 5	311 671 612	
16	-24 551 157 647 264 989 093 981 979 980 6 875	-80 799 901	61 643 582	17	-122 656 362 097 465 093 967 632 551 26 9 53 125	-340 183 109	
18	18 806 783 853 013 971 155 038 715 820 31 2 5	61 643 582	-30 161 204	19	90 248 182 496 698 190 883 556 333 00 7 81 25	250 300 162	
20	-9 201 915 057 703 967 002 622 744 110 62 5	-30 161 204	8 571 706	21	-42 874 465 839 078 278 971 601 191 40 6 25	-118 910 824	
22	2 615 133 917 417 388 796 617 709 960 9 3 75	8 571 706	-1 077 193	23	11 890 786 353 721 359 957 934 584 96 0 3 75	32 978 678	
24	-328 239 823 846 570 250 093 669 433 59 375	-1 077 193		25	-1 463 941 033 498 358 386 780 891 11 32 8 125	-4 060 189	

TABLE 1 (Continued)

P_{15}^{15}				P_{16}^{16}				P_{17}^{17}				P_{18}^{18}			
Numerator		Denominator		Numerator		Denominator		Numerator		Denominator		Numerator		Denominator	
6 190 283 353 629 375		1		191 898 783 962 510 625		1		191 898 783 962 510 625		2		191 898 783 962 510 625		2	
k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k
0	6 190 283 353 629 375	1	1	1	191 898 783 962 510 625	1	1	0	-95 949 391 981 255 312.5	-1	-1	0	-95 949 391 981 255 312.5	-1	-1
2	-43 391 850 476 216 875	-7	3	3	-1 343 291 487 737 574 375	-7	3	2	3 837 975 679 250 212 500	40	40	2	3 837 975 679 250 212 500	40	40
4	176 991 950 476 216 875	21	5	5	4 029 874 463 212 623 875	21	5	4	-24 179 246 779 276 338 750	-252	-252	4	-24 179 246 779 276 338 750	-252	-252
6	-216 659 917 377 028 125	-35	7	7	-6 716 457 438 697 871 875	-35	7	6	69 851 157 362 353 867 500	728	728	6	69 851 157 362 353 867 500	728	728
8	216 659 917 377 028 125	35	9	9	6 716 457 438 697 871 875	35	9	8	-114 179 776 457 697 871 875	-1 190	-1 190	8	-114 179 776 457 697 871 875	-1 190	-1 190
10	-129 995 950 476 216 875	-21	11	11	-4 029 874 463 212 623 875	-21	11	10	112 836 484 569 958 276 500	1 176	1 176	10	112 836 484 569 958 276 500	1 176	1 176
12	43 331 983 475 405 625	7	13	13	1 343 291 487 737 574 375	7	13	12	-27 164 578 886 878 718 750	-700	-700	12	-27 164 578 886 878 718 750	-700	-700
14	-6 190 283 353 629 375	-1	15	15	-191 898 783 962 510 625	-1	15	14	23 166 329 335 381 425 312.5	232	232	14	23 166 329 335 381 425 312.5	232	232
								16	-3 166 329 335 381 425 312.5	-33	-33	16	-3 166 329 335 381 425 312.5	-33	-33
P_{15}^{15}				P_{16}^{16}				P_{17}^{17}				P_{18}^{18}			
Numerator		Denominator		Numerator		Denominator		Numerator		Denominator		Numerator		Denominator	
2 110 886 623 587 616 875		2		2 110 886 623 587 616 875		2		2 110 886 623 587 616 875		2		2 110 886 623 587 616 875		2	
k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k
1	-3 166 329 935 381 425 312.5	-3	3	1	2 110 886 623 587 616 875	-3	3	0	791 582 483 845 356 328 125	3	3	0	791 582 483 845 356 328 125	3	3
3	59 104 625 460 453 272 500	56	5	3	-59 104 625 460 453 272 500	56	5	2	-60 951 851 256 092 437 565 625	-231	-231	2	-60 951 851 256 092 437 565 625	-231	-231
5	-85 076 361 032 492 598 750	-308	7	5	85 076 361 032 492 598 750	-308	7	4	746 158 421 438 222 565 312.5	2 828	2 828	4	746 158 421 438 222 565 312.5	2 828	2 828
7	85 076 361 032 492 598 750	308	9	7	-85 076 361 032 492 598 750	308	9	6	-3 583 230 043 539 979 645 312.5	-13 580	-13 580	6	-3 583 230 043 539 979 645 312.5	-13 580	-13 580
9	-1 330 435 685 765 421 875	-1 330	11	9	1 330 435 685 765 421 875	-1 330	11	8	9 142 777 688 413 865 589 843 75	34 650	34 650	8	9 142 777 688 413 865 589 843 75	34 650	34 650
11	261 743 941 374 864 492 500	268	13	11	-261 743 941 374 864 492 500	268	13	10	-13 915 492 344 345 467 344 218 75	-52 738	-52 738	10	-13 915 492 344 345 467 344 218 75	-52 738	-52 738
13	-36 940 515 912 783 295 312.5	-35	15	13	36 940 515 912 783 295 312.5	-35	15	12	13 128 659 355 403 183 154 062.5	49 756	49 756	12	13 128 659 355 403 183 154 062.5	49 756	49 756
15			17	15			17	14	-7 564 362 215 626 225 071 562.5	-28 668	-28 668	14	-7 564 362 215 626 225 071 562.5	-28 668	-28 668
								16	2 447 309 179 221 893 314 453 125	9 275	9 275	16	2 447 309 179 221 893 314 453 125	9 275	9 275
								18	-341 699 772 193 245 481 640 625	-1 295	-1 295	18	-341 699 772 193 245 481 640 625	-1 295	-1 295
P_{15}^{15}				P_{16}^{16}				P_{17}^{17}				P_{18}^{18}			
Numerator		Denominator		Numerator		Denominator		Numerator		Denominator		Numerator		Denominator	
14 776 206 365 113 318 125		16		14 776 206 365 113 318 125		16		14 776 206 365 113 318 125		16		14 776 206 365 113 318 125		16	
k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k	k	a_k	b_k	c_k
1	27 705 386 934 587 471 484 375	15	1	1	14 776 206 365 113 318 125	15	1	0	-4 617 564 489 097 911 914 0625	-5	-5	0	-4 617 564 489 097 911 914 0625	-5	-5
3	-877 337 252 928 603 263 671 875	-475	3	3	-877 337 252 928 603 263 671 875	-475	3	2	544 872 609 713 553 605 859 375	590	590	2	544 872 609 713 553 605 859 375	590	590
5	8 030 868 159 439 088 400 937.5	4 348	5	5	8 030 868 159 439 088 400 937.5	4 348	5	4	-347 962 020 068 420 599 414 0625	-11 205	-11 205	4	-347 962 020 068 420 599 414 0625	-11 205	-11 205
7	-33 977 886 536 578 075 028 437.5	-18 396	7	7	-33 977 886 536 578 075 028 437.5	-18 396	7	6	75 779 774 343 483 652 004 062.5	82 056	82 056	6	75 779 774 343 483 652 004 062.5	82 056	82 056
9	80 859 095 281 491 355 109 531.25	43 778	9	9	80 859 095 281 491 355 109 531.25	43 778	9	8	-285 515 094 515 697 728 635 078 125	-309 162	-309 162	8	-285 515 094 515 697 728 635 078 125	-309 162	-309 162
11	-117 784 834 987 909 537 103 906.25	-63 770	11	11	-117 784 834 987 909 537 103 906.25	-63 770	11	10	633 710 856 432 206 152 756 406.25	686 196	686 196	10	633 710 856 432 206 152 756 406.25	686 196	686 196
13	107 829 365 949 414 439 017 187.5	58 380	13	13	107 829 365 949 414 439 017 187.5	58 380	13	12	-881 446 885 323 900 405 275 390 625	-954 450	-954 450	12	-881 446 885 323 900 405 275 390 625	-954 450	-954 450
15	-60 781 924 882 893 634 107 187.5	-32 908	15	15	-60 781 924 882 893 634 107 187.5	-32 908	15	14	780 959 446 912 151 646 201 562.5	845 640	845 640	14	780 959 446 912 151 646 201 562.5	845 640	845 640
17	19 340 207 106 137 694 260 859 375	10 471	17	17	19 340 207 106 137 694 260 859 375	10 471	17	16	-429 619 123 578 567 544 066 757 8125	-465 201	-465 201	16	-429 619 123 578 567 544 066 757 8125	-465 201	-465 201
19	-2 665 258 223 107 314 756 796 875	-1 443	19	19	-2 665 258 223 107 314 756 796 875	-1 443	19	18	1 341 151 330 563 068 176 092 109 375	145 262	145 262	18	1 341 151 330 563 068 176 092 109 375	145 262	145 262
								20	-18 212 597 857 899 984 171 445 3125	-19 721	-19 721	20	-18 212 597 857 899 984 171 445 3125	-19 721	-19 721

TABLE 1 (Continued)

P ₃₂ k	Numerator			Denominator		
	78	102	805	072	741	824 375 128
1	-170	84.9	886	096	622	740 820 3125
3	7	825	062	766	446	622 077 724 375
5	-104	640	086	107	038	315 507 8125
7	640	247	744	583	801	105 312 062 5
9	-2	169	725	213	472	670 159 321 640 225
11	4	498	445	840	678	515 416 895 156 225
13	-5	969	153	320	443	805 318 780 078 125
15	5	109	915	073	286	670 230 646 562 5
17	-2	738	552	824	242	765 912 608 789 0625
19	837	779	501	463	399	271 886 484 375
21	-111	877	386	841	385	617 053 164 0625
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P ₃₂ k	Numerator			Denominator		
	78	102	805	072	741	824 375 128
1	-170	84.9	886	096	622	740 820 3125
3	7	825	062	766	446	622 077 724 375
5	-104	640	086	107	038	315 507 8125
7	640	247	744	583	801	105 312 062 5
9	-2	169	725	213	472	670 159 321 640 225
11	4	498	445	840	678	515 416 895 156 225
13	-5	969	153	320	443	805 318 780 078 125
15	5	109	915	073	286	670 230 646 562 5
17	-2	738	552	824	242	765 912 608 789 0625
19	837	779	501	463	399	271 886 484 375
21	-111	877	386	841	385	617 053 164 0625
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TABLE 1 (Continued)

P^*	k	15 230 046 989 184 655 753 125		208 143 975 518 856 961 959 375	
		Numerator Denominator		Numerator Denominator	
P^*	0	832 893 194 721 035 861	13.02343 75	34 148 620 983 562 470 321	459.96093 75
	2	-113 856 685 492 018 168 177	22.03125	-2 231 043 237 592 748 061 002	050.78125
	4	082 878 265 512 580 502 034	2.8.04687 5	43 050 028 186 611 087 585 253	857.42187 5
	6	-44 982 277 138 762 088 951 655	253.90625	-386 490 840 042 342 556 958 253	222.65625
	8	260 480 544 138 762 088 951 655	116.60136 25	1 959 615 262 892 114 877 256 949	243.16406 25
	10	-904 067 963 691 179 878 338	914.0625	-6 220 057 483 419 292 094	152 860 351.5625
	12	2 028 178 218 465 544 110 514	274.712.05625	13 095 085 517 303 312 369 071	322 753.50625
	14	-3 058 083 969 465 544 110 514	416.60136 25	-18 834 831 283 715 756 573	765 682 055.86406 25
	16	3 140 512 910 267 500 849 619	248 266.60136 25	18 834 831 283 715 756 573	765 682 055.86406 25
	18	-2 173 354 833 877 849 619 138	997 753.90625	-12 583 972 308 423 526 548	083 387 537.85625
	20	972 074 644 918 089 280 170	679 248.04687 5	1 408 578 448 023 370 203	200 622 957.78187 5
	22	-254 241 361 597 048 814 753	315 332.03125	-1 408 578 448 023 370 203	200 622 957.78187 5
	24	29 577 584 146 191 322 508	430 249.02343 75	161 033 513 684 819 422 545	898 022.66093 75
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TABLE 1 (Continued)

Numerical Differential				Numerical Differential				Numerical Differential				Numerical Differential				Numerical Differential			
P ¹⁷	k	a ₁	b ₁	P ¹⁷	k	a ₁	b ₁	P ¹⁷	k	a ₁	b ₁	P ¹⁷	k	a ₁	b ₁	P ¹⁷	k	a ₁	b ₁
0	0	332 559 870 762 850 625.	1	0	0	221 643 095 476 699 771 875.	1	0	0	110 821 547 738 349 885 937.5	-1	0	0	110 821 547 738 349 885 937.5	-1	0	0	110 821 547 738 349 885 937.5	-1
1	1	50 781 276 960 102 805 000.	-8	1	1	-1 773 144 763 313 598 771 875.	-8	1	1	4 986 969 648 225 744 867 187.5	45	1	1	4 986 969 648 225 744 867 187.5	45	1	1	4 986 969 648 225 744 867 187.5	45
2	2	177 314 576 381 359 817 500.	-2	2	2	6 205 006 673 347 293 612 500.	-28	2	2	-35 905 181 467 225 363 043 750.	-324	2	2	-35 905 181 467 225 363 043 750.	-324	2	2	-35 905 181 467 225 363 043 750.	-324
3	3	354 548 952 752 719 635 000.	-56	3	3	-12 412 013 466 695 187 235 000.	-56	3	3	121 017 130 130 278 075 443 750.	1 092	3	3	121 017 130 130 278 075 443 750.	1 092	3	3	121 017 130 130 278 075 443 750.	1 092
4	4	531 276 190 933 398 543 750.	-70	4	4	15 512 013 466 695 187 235 000.	-70	4	4	-231 375 255 355 455 678 125.	-2 142	4	4	-231 375 255 355 455 678 125.	-2 142	4	4	-231 375 255 355 455 678 125.	-2 142
5	5	708 009 381 116 013 635 000.	-56	5	5	-12 412 013 466 695 187 235 000.	-56	5	5	233 733 615 315 613 798 468 750.	2 646	5	5	233 733 615 315 613 798 468 750.	2 646	5	5	233 733 615 315 613 798 468 750.	2 646
6	6	884 843 572 301 359 817 500.	-28	6	6	6 205 006 673 347 293 612 500.	-28	6	6	-112 497 625 837 380 998 750.	-1 040	6	6	-112 497 625 837 380 998 750.	-1 040	6	6	-112 497 625 837 380 998 750.	-1 040
7	7	1061 681 476 966 102 805 000.	-8	7	7	-1 773 144 763 313 598 771 875.	-8	7	7	32 913 999 638 589 916 123 375.	-237	7	7	32 913 999 638 589 916 123 375.	-237	7	7	32 913 999 638 589 916 123 375.	-237
8	8	1238 519 370 151 013 635 000.	-56	8	8	221 643 095 476 699 771 875.	-56	8	8	4 100 397 266 318 945 775 687.5	37	8	8	4 100 397 266 318 945 775 687.5	37	8	8	4 100 397 266 318 945 775 687.5	37
9	9	1415 357 266 318 945 775 687.5	-28	9	9	-1 773 144 763 313 598 771 875.	-28	9	9	1 025 099 315 579 736 441 921.875	-86	9	9	1 025 099 315 579 736 441 921.875	-86	9	9	1 025 099 315 579 736 441 921.875	-86
10	10	1592 205 151 013 635 000.	-8	10	10	6 205 006 673 347 293 612 500.	-8	10	10	-88 158 561 235 587 35 263 681.25	-185	10	10	-88 158 561 235 587 35 263 681.25	-185	10	10	-88 158 561 235 587 35 263 681.25	-185
11	11	1769 053 443 801 359 817 500.	-56	11	11	-12 412 013 466 695 187 235 000.	-56	11	11	19 847 572 967 016 857 046 577 843.75	-19 504	11	11	19 847 572 967 016 857 046 577 843.75	-19 504	11	11	19 847 572 967 016 857 046 577 843.75	-19 504
12	12	1945 905 333 337 123 000 443 750.	-28	12	12	6 205 006 673 347 293 612 500.	-28	12	12	-36 251 612 231 545 799 638 217 187.5	-35 362	12	12	-36 251 612 231 545 799 638 217 187.5	-35 362	12	12	-36 251 612 231 545 799 638 217 187.5	-35 362
13	13	2122 757 226 013 635 000.	-8	13	13	-1 773 144 763 313 598 771 875.	-8	13	13	42 752 792 097 274 488 171 911 716.75	-45 706	13	13	42 752 792 097 274 488 171 911 716.75	-45 706	13	13	42 752 792 097 274 488 171 911 716.75	-45 706
14	14	2300 609 116 013 635 000.	-56	14	14	6 205 006 673 347 293 612 500.	-56	14	14	-32 844 182 103 214 755 695 296 875.75	-32 040	14	14	-32 844 182 103 214 755 695 296 875.75	-32 040	14	14	-32 844 182 103 214 755 695 296 875.75	-32 040
15	15	2477 461 009 000 443 750.	-28	15	15	-1 773 144 763 313 598 771 875.	-28	15	15	15 939 269 273 496 321 982 090 234.375	-15 549	15	15	15 939 269 273 496 321 982 090 234.375	-15 549	15	15	15 939 269 273 496 321 982 090 234.375	-15 549
16	16	2654 313 899 916 123 375.	-8	16	16	221 643 095 476 699 771 875.	-8	16	16	-4 450 981 232 589 215 643 850 781.25	-342	16	16	-4 450 981 232 589 215 643 850 781.25	-342	16	16	-4 450 981 232 589 215 643 850 781.25	-342
17	17	2831 165 799 837 380 998 750.	-56	17	17	-1 773 144 763 313 598 771 875.	-56	17	17	546 377 935 736 999 525 143 359.375	533	17	17	546 377 935 736 999 525 143 359.375	533	17	17	546 377 935 736 999 525 143 359.375	533
18	18	3008 017 689 916 123 375.	-28	18	18	6 205 006 673 347 293 612 500.	-28	18	18	1 025 099 315 579 736 441 921.875	-86	18	18	1 025 099 315 579 736 441 921.875	-86	18	18	1 025 099 315 579 736 441 921.875	-86
19	19	3184 869 580 013 635 000.	-8	19	19	-12 412 013 466 695 187 235 000.	-8	19	19	-88 158 561 235 587 35 263 681.25	-185	19	19	-88 158 561 235 587 35 263 681.25	-185	19	19	-88 158 561 235 587 35 263 681.25	-185
20	20	3361 721 470 100 443 750.	-56	20	20	6 205 006 673 347 293 612 500.	-56	20	20	19 847 572 967 016 857 046 577 843.75	-19 504	20	20	19 847 572 967 016 857 046 577 843.75	-19 504	20	20	19 847 572 967 016 857 046 577 843.75	-19 504
21	21	3538 573 361 013 635 000.	-28	21	21	-1 773 144 763 313 598 771 875.	-28	21	21	-36 251 612 231 545 799 638 217 187.5	-35 362	21	21	-36 251 612 231 545 799 638 217 187.5	-35 362	21	21	-36 251 612 231 545 799 638 217 187.5	-35 362
22	22	3715 425 251 013 635 000.	-8	22	22	6 205 006 673 347 293 612 500.	-8	22	22	42 752 792 097 274 488 171 911 716.75	-45 706	22	22	42 752 792 097 274 488 171 911 716.75	-45 706	22	22	42 752 792 097 274 488 171 911 716.75	-45 706
23	23	3892 277 141 013 635 000.	-56	23	23	-1 773 144 763 313 598 771 875.	-56	23	23	-32 844 182 103 214 755 695 296 875.75	-32 040	23	23	-32 844 182 103 214 755 695 296 875.75	-32 040	23	23	-32 844 182 103 214 755 695 296 875.75	-32 040
24	24	4069 129 030 013 635 000.	-28	24	24	6 205 006 673 347 293 612 500.	-28	24	24	15 939 269 273 496 321 982 090 234.375	-15 549	24	24	15 939 269 273 496 321 982 090 234.375	-15 549	24	24	15 939 269 273 496 321 982 090 234.375	-15 549
25	25	4246 981 920 013 635 000.	-8	25	25	-1 773 144 763 313 598 771 875.	-8	25	25	-4 450 981 232 589 215 643 850 781.25	-342	25	25	-4 450 981 232 589 215 643 850 781.25	-342	25	25	-4 450 981 232 589 215 643 850 781.25	-342
26	26	4423 833 810 013 635 000.	-56	26	26	6 205 006 673 347 293 612 500.	-56	26	26	546 377 935 736 999 525 143 359.375	533	26	26	546 377 935 736 999 525 143 359.375	533	26	26	546 377 935 736 999 525 143 359.375	533
27	27	4600 685 700 013 635 000.	-28	27	27	-1 773 144 763 313 598 771 875.	-28	27	27	1 025 099 315 579 736 441 921.875	-86	27	27	1 025 099 315 579 736 441 921.875	-86	27	27	1 025 099 315 579 736 441 921.875	-86
28	28	4777 537 590 013 635 000.	-8	28	28	6 205 006 673 347 293 612 500.	-8	28	28	-88 158 561 235 587 35 263 681.25	-185	28	28	-88 158 561 235 587 35 263 681.25	-185	28	28	-88 158 561 235 587 35 263 681.25	-185
29	29	4954 389 480 013 635 000.	-56	29	29	-12 412 013 466 695 187 235 000.	-56	29	29	19 847 572 967 016 857 046 577 843.75	-19 504	29	29	19 847 572 967 016 857 046 577 843.75	-19 504	29	29	19 847 572 967 016 857 046 577 843.75	-19 504
30	30	5131 241 370 013 635 000.	-28	30	30	6 205 006 673 347 293 612 500.	-28	30	30	-36 251 612 231 545 799 638 217 187.5	-35 362	30	30	-36 251 612 231 545 799 638 217 187.5	-35 362	30	30	-36 251 612 231 545 799 638 217 187.5	-35 362
31	31	5308 093 260 013 635 000.	-8	31	31	-1 773 144 763 313 598 771 875.	-8	31	31	42 752 792 097 274 488 171 911 716.75	-45 706	31	31	42 752 792 097 274 488 171 911 716.75	-45 706	31	31	42 752 792 097 274 488 171 911 716.75	-45 706
32	32	5484 945 150 013 635 000.	-56	32	32	6 205 006 673 347 293 612 500.	-56	32	32	-32 844 182 103 214 755 695 296 875.75	-32 040	32	32	-32 844 182 103 214 755 695 296 875.75	-32 040	32	32	-32 844 182 103 214 755 695 296 875.75	-32 040
33	33	5661 797 040 013 635 000.	-28	33	33	-1 773 144 763 313 598 771 875.	-28	33	33	15 939 269 273 496 321 982 090 234.375	-15 549	33	33	15 939 269 273 496 321 982 090 234.375	-15 549	33	33	15 939 269 273 496 321 982 090 234.375	-15 549
34	34	5838 649 930 013 635 000.	-8	34	34	6 205 006 673 347 293 612 500.	-8	34	34	-4 450 981 232 589 215 643 850 781.25	-342	34	34	-4 450 981 232 589 215 643 850 781.25	-342	34	34	-4 450 981 232 589 215 643 850 781.25	-342
35	35	6015 501 820 013 635 000.	-56	35	35	-1 773 144 763 313 598 771 875.	-56	35	35	546 377 935 736 999 525 143 359.375	533	35	35	546 377 935 736 999 525 143 359.375	533	35	35	546 377 935 736 999 525 143 359.375	533
36	36	6192 353 710 013 635 000.	-28	36	36	6 205 006 673 347 293 612 500.	-28	36	36	1 025 099 315 579 736 441 921.875	-86	36	36	1 025 099 315 579 736 441 921.875	-86	36	36	1 025 099 315 579 736 441 921.875	-86
37	37	6369 205 600 013 635 000.	-8	37	37	-12 412 013 466 695 187 235 000.	-8	37	37	-88 158 561 235 587 35 263 681.25	-185	37	37	-88 158 561 235 587 35 263 681.25	-185	37	37	-88 158 561 235 587 35 263 681.25	-185
38	38	6546 057 490 013 635 000.	-56	38	38	6 205 006 673 347 293 612 500.	-56	38	38	19 847 572 967 016 857 046 577 843.75	-19 504	38	38	19 847 572 967 016 857 046 577 843.75	-19 504	38	38	19 847 572 967 016 857 046 577 843.75	-19 504
39	39	6722 909 380 013 635 000.	-28	39	39	-1 773 144 763 313 598 771 875.	-28	39	39	-36 251 612 231 545 799 638 217 187.5	-35 362	39	39	-36 251 612 231 545 799 638 217 187.5	-35 362	39	39	-36 251 612 231 545 799 638 217 187.5	-35 362
40	40	690																	

[illegible]

TABLE 1 (Continued)

P ₁₀				P ₁₁				P ₁₂				P ₁₃				P ₁₄				P ₁₅				P ₁₆			
k		a _k		b _k		k		a _k		b _k		k		a _k		k		a _k		b _k		k		a _k		b _k	
Numerator		Denominator		Numerator		Numerator		Denominator		Numerator		Numerator		Denominator		Numerator		Denominator		Numerator		Numerator		Denominator		Numerator	
221 64.3 095 476 699 771 875		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375		8 200 794 532 637 891 559 375	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

TABLE 1 (Continued)

P_{21}^n	k	Numerator			Denominator		
		8	200	794	532	637	891
0	1	8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
2	1	8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
4	1	8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
6	1	8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891
		8	200	794	532	637	891

TABLE 1 (Continued)

P_{20}^{20}	k	Numerator	Denominator	a_k	b_k
0	1	319 830 986 772 877 770 815 625	1		
2	3	-3 196 309 867 772 877 770 815 625	1		
4	5	116 296 643 621 620 348 926 764 045 968 75	1		
6	7	-38 376 718 412 304 331 871 281 250	1		
8	9	67 164 507 222 304 331 871 281 250	1		
10	11	-80 597 408 666 765 198 245 537 500	1		
12	13	67 164 507 222 304 331 871 281 250	1		
14	15	-38 376 718 412 304 331 871 281 250	1		
16	17	14 392 394 404 779 499 686 703 125	1		
18	19	-3 196 309 867 772 877 770 815 625	1		
20	21	319 830 986 772 877 770 815 625	1		

P_{20}^{20}	k	Numerator	Denominator	a_k	b_k
0	1	-6 556 535 238 843 894 301 720 312.5	1		
2	3	347 426 325 128 731 297 901 148 875	1		
4	5	-13 114 359 233 700 897 953 317 148 875	1		
6	7	13 473 679 895 274 408 580 035 242 187.5	1		
8	9	-35 208 594 178 862 249 400 238 078 125	1		
10	11	60 857 759 994 129 955 108 567 940 625	1		
12	13	-72 423 488 137 810 761 056 802 571 875	1		
14	15	59 992 297 343 922 547 860 740 859 375	1		
16	17	-34 126 765 866 132 990 340 454 226 562.5	1		
18	19	12 752 461 020 101 568 916 846 007 812.5	1		
20	21	-2 825 866 683 631 761 544 041 454 687.5	1		
22	23	281 931 014 840 291 754 973 973 437.5	1		

P_{20}^{20}	k	Numerator	Denominator	a_k	b_k
0	1	70 482 753 710 072 938 743 493 359 375	1		
2	3	-7 048 273 371 007 293 874 349 335 937.5	1		
4	5	116 296 643 621 620 348 926 764 045 968 75	1		
6	7	-790 816 196 637 018 372 701 995 492 187.5	1		
8	9	3 012 010 479 759 967 037 203 188 712 850 625	1		
10	11	-7 312 726 662 927 487 540 514 923 021 875	1		
12	13	12 048 321 919 199 868 148 812 754 851 562.5	1		
14	15	-13 862 547 999 697 145 592 070 273 921 875	1		
16	17	11 199 357 150 732 039 601 647 377 337 890 625	1		
18	19	-6 249 000 943 935 066 748 958 121 242 187.5	1		
20	21	2 299 570 322 544 839 699 445 214 342 968 75	1		
22	23	-503 246 861 489 920 782 628 542 585 937.5	1		
24	25	49 690 341 365 601 421 814 162 818 359 375	1		

P_{20}^{20}	k	Numerator	Denominator	a_k	b_k
0	1	13 113 070 457 687 988 603 440 625	1		
2	3	-13 113 070 457 687 988 603 440 625	1		
4	5	532 568 154 922 528 632 412 875 000	1		
6	7	-2 723 744 766 114 477 606 722 531 250	1		
8	9	2 723 744 766 114 477 606 722 531 250	1		
10	11	-3 304 493 755 337 373 128 067 037 500	1		
12	13	2 723 744 766 114 477 606 722 531 250	1		
14	15	-532 568 154 922 528 632 412 875 000	1		
16	17	530 088 170 595 959 487 154 828 125	1		
18	19	-13 113 070 457 687 988 603 440 625	1		
20	21	13 113 070 457 687 988 603 440 625	1		

P_{20}^{20}	k	Numerator	Denominator	a_k	b_k
0	1	563 862 029 680 583 509 947 946 875	2		
2	3	-281 931 014 840 291 754 973 973 437.5	2		
4	5	7 048 273 371 007 293 874 349 335 937.5	2		
6	7	-234 742 728 031 922 202 328 880 812.5	2		
8	9	266 681 336 828 986 722 497 686 609 375	2		
10	11	-959 129 312 486 672 550 421 457 634 375	2		
12	13	1 124 904 749 212 754 102 346 154 015 625	2		
14	15	-921 914 418 527 754 038 764 893 140 625	2		
16	17	520 162 722 380 338 287 926 980 992 187.5	2		
18	19	193 122 745 165 599 852 157 171 804 687.5	2		
20	21	-42 571 583 240 884 055 001 069 989 062.5	2		
22	23	4 228 965 222 604 376 324 609 601 562.5	2		

P_{20}^{20}	k	Numerator	Denominator	a_k	b_k
0	1	1 691 586 089 041 750 529 843 840 625	8		
2	3	171 723 916 953 282 243 457 201 171 875	8		
4	5	-131 097 927 904 335 686 062 897 848 137.5	8		
6	7	1 623 939 046 727 620 170 777 075 039 863.75	8		
8	9	-9 723 939 046 727 620 170 777 075 039 863.75	8		
10	11	34 505 784 492 534 757 526 570 893 258 856.125	8		
12	13	-80 102 059 246 573 096 340 755 072 796 835	8		
14	15	127 972 716 601 231 031 959 011 152 882 812.5	8		
16	17	-143 965 817 280 076 262 343 419 744 071 875	8		
18	19	114 331 332 034 414 965 029 901 730 642 578 125	8		
20	21	-62 939 689 408 020 332 839 164 700 054 687.5	8		
22	23	22 910 419 093 459 208 738 572 516 464 843.75	8		
24	25	-4 949 034 136 560 142 181 416 281 835 937.5	8		
26	27	486 965 345 382 893 933 778 795 619 921 875	8		

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TABLE 1 (Continued)

$\frac{p_{21}^n}{k}$	$\frac{\text{numerator}}{\text{denominator}}$	13	113	070	457	687	988	603	440	625	b_k	b_k^*
0		13	113	070	457	687	988	603	440	625	1	1
2		-131	130	704	576	879	886	034	406	250	-10	-10
4		590	088	170	595	959	487	154	828	135	45	45
6		-1	573	568	454	922	558	632	412	875	000	-120
8		2	753	744	796	114	477	606	722	531	250	210
10		-3	304	493	755	337	373	128	067	037	500	-552
12		2	753	744	796	114	477	606	722	531	250	210
14		-1	573	568	454	922	558	632	412	875	000	-120
16		590	088	170	595	959	487	154	828	135	45	45
18		-131	130	704	576	879	886	034	406	250	-10	-10
20		13	113	070	457	687	988	603	440	625	1	1

p_1^{21}	p_2^{21}	p_3^{21}	p_4^{21}	p_5^{21}	p_6^{21}	p_7^{21}	p_8^{21}	p_9^{21}	p_{10}^{21}	p_{11}^{21}	p_{12}^{21}	p_{13}^{21}	p_{14}^{21}	p_{15}^{21}	p_{16}^{21}	p_{17}^{21}	p_{18}^{21}	p_{19}^{21}	p_{20}^{21}	p_{21}^{21}	p_{22}^{21}	p_{23}^{21}	p_{24}^{21}	p_{25}^{21}	p_{26}^{21}	p_{27}^{21}	p_{28}^{21}	p_{29}^{21}	p_{30}^{21}	p_{31}^{21}	p_{32}^{21}	p_{33}^{21}	p_{34}^{21}	p_{35}^{21}	p_{36}^{21}	p_{37}^{21}	p_{38}^{21}	p_{39}^{21}	p_{40}^{21}	p_{41}^{21}	p_{42}^{21}	p_{43}^{21}	p_{44}^{21}	p_{45}^{21}	p_{46}^{21}	p_{47}^{21}	p_{48}^{21}	p_{49}^{21}	p_{50}^{21}	p_{51}^{21}	p_{52}^{21}	p_{53}^{21}	p_{54}^{21}	p_{55}^{21}	p_{56}^{21}	p_{57}^{21}	p_{58}^{21}	p_{59}^{21}	p_{60}^{21}	p_{61}^{21}	p_{62}^{21}	p_{63}^{21}	p_{64}^{21}	p_{65}^{21}	p_{66}^{21}	p_{67}^{21}	p_{68}^{21}	p_{69}^{21}	p_{70}^{21}	p_{71}^{21}	p_{72}^{21}	p_{73}^{21}	p_{74}^{21}	p_{75}^{21}	p_{76}^{21}	p_{77}^{21}	p_{78}^{21}	p_{79}^{21}	p_{80}^{21}	p_{81}^{21}	p_{82}^{21}	p_{83}^{21}	p_{84}^{21}	p_{85}^{21}	p_{86}^{21}	p_{87}^{21}	p_{88}^{21}	p_{89}^{21}	p_{90}^{21}	p_{91}^{21}	p_{92}^{21}	p_{93}^{21}	p_{94}^{21}	p_{95}^{21}	p_{96}^{21}	p_{97}^{21}	p_{98}^{21}	p_{99}^{21}	p_{100}^{21}	p_{101}^{21}	p_{102}^{21}	p_{103}^{21}	p_{104}^{21}	p_{105}^{21}	p_{106}^{21}	p_{107}^{21}	p_{108}^{21}	p_{109}^{21}	p_{110}^{21}	p_{111}^{21}	p_{112}^{21}	p_{113}^{21}	p_{114}^{21}	p_{115}^{21}	p_{116}^{21}	p_{117}^{21}	p_{118}^{21}	p_{119}^{21}	p_{120}^{21}	p_{121}^{21}	p_{122}^{21}	p_{123}^{21}	p_{124}^{21}	p_{125}^{21}	p_{126}^{21}	p_{127}^{21}	p_{128}^{21}	p_{129}^{21}	p_{130}^{21}	p_{131}^{21}	p_{132}^{21}	p_{133}^{21}	p_{134}^{21}	p_{135}^{21}	p_{136}^{21}	p_{137}^{21}	p_{138}^{21}	p_{139}^{21}	p_{140}^{21}	p_{141}^{21}	p_{142}^{21}	p_{143}^{21}	p_{144}^{21}	p_{145}^{21}	p_{146}^{21}	p_{147}^{21}	p_{148}^{21}	p_{149}^{21}	p_{150}^{21}	p_{151}^{21}	p_{152}^{21}	p_{153}^{21}	p_{154}^{21}	p_{155}^{21}	p_{156}^{21}	p_{157}^{21}	p_{158}^{21}	p_{159}^{21}	p_{160}^{21}	p_{161}^{21}	p_{162}^{21}	p_{163}^{21}	p_{164}^{21}	p_{165}^{21}	p_{166}^{21}	p_{167}^{21}	p_{168}^{21}	p_{169}^{21}	p_{170}^{21}	p_{171}^{21}	p_{172}^{21}	p_{173}^{21}	p_{174}^{21}	p_{175}^{21}	p_{176}^{21}	p_{177}^{21}	p_{178}^{21}	p_{179}^{21}	p_{180}^{21}	p_{181}^{21}	p_{182}^{21}	p_{183}^{21}	p_{184}^{21}	p_{185}^{21}	p_{186}^{21}	p_{187}^{21}	p_{188}^{21}	p_{189}^{21}	p_{190}^{21}	p_{191}^{21}	p_{192}^{21}	p_{193}^{21}	p_{194}^{21}	p_{195}^{21}	p_{196}^{21}	p_{197}^{21}	p_{198}^{21}	p_{199}^{21}	p_{200}^{21}	p_{201}^{21}	p_{202}^{21}	p_{203}^{21}	p_{204}^{21}	p_{205}^{21}	p_{206}^{21}	p_{207}^{21}	p_{208}^{21}	p_{209}^{21}	p_{210}^{21}	p_{211}^{21}	p_{212}^{21}	p_{213}^{21}	p_{214}^{21}	p_{215}^{21}	p_{216}^{21}	p_{217}^{21}	p_{218}^{21}	p_{219}^{21}	p_{220}^{21}	p_{221}^{21}	p_{222}^{21}	p_{223}^{21}	p_{224}^{21}	p_{225}^{21}	p_{226}^{21}	p_{227}^{21}	p_{228}^{21}	p_{229}^{21}	p_{230}^{21}	p_{231}^{21}	p_{232}^{21}	p_{233}^{21}	p_{23
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21	25	29	33	37	41	45	49	53	57	61	65	69	73	77	81	85	89	93	97	101	105	109	113	117	121	125	129	133	137	141	145	149	153	157	161	165	169	173	177	181	185	189	193	197	201	205	209	213	217	221	225	229	233	237	241	245	249	253	257	261	265	269	273	277	281	285	289	293	297	301	305	309	313	317	321	325	329	333	337	341	345	349	353	357	361	365	369	373	377	381	385	389	393	397	401	405	409	413	417	421	425	429	433	437	441	445	449	453	457	461	465	469	473	477	481	485	489	493	497	501	505	509	513	517	521	525	529	533	537	541	545	549	553	557	561	565	569	573	577	581	585	589	593	597	601	605	609	613	617	621	625	629	633	637	641	645	649	653	657	661	665	669	673	677	681	685	689	693	697	701	705	709	713	717	721	725	729	733	737	741	745	749	753	757	761	765	769	773	777	781	785	789	793	797	801	805	809	813	817	821	825	829	833	837	841	845	849	853	857	861	865	869	873	877	881	885	889	893	897	901	905	909	913	917	921	925	929	933	937	941	945	949	953	957	961	965	969	973	977	981	985	989	993	997	1001	1005	1009	1013	1017	1021	1025	1029	1033	1037	1041	1045	1049	1053	1057	1061	1065	1069	1073	1077	1081	1085	1089	1093	1097	1101	1105	1109	1113	1117	1121	1125	1129	1133	1137	1141	1145	1149	1153	1157	1161	1165	1169	1173	1177	1181	1185	1189	1193	1197	1201	1205	1209	1213	1217	1221	1225	1229	1233	1237	1241	1245	1249	1253	1257	1261	1265	1269	1273	1277	1281	1285	1289	1293	1297	1301	1305	1309	1313	1317	1321	1325	1329	1333	1337	1341	1345	1349	1353	1357	1361	1365	1369	1373	1377	1381	1385	1389	1393	1397	1401	1405	1409	1413	1417	1421	1425	1429	1433	1437	1441	1445	1449	1453	1457	1461	1465	1469	1473	1477	1481	1485	1489	1493	1497	1501	1505	1509	1513	1517	1521	1525	1529	1533	1537	1541	1545	1549	1553	1557	1561	1565	1569	1573	1577	1581	1585	1589	1593	1597	1601	1605	1609	1613	1617	1621	1625	1629	1633	1637	1641	1645	1649	1653	1657	1661	1665	1669	1673	1677	1681	1685	1689	1693	1697	1701	1705	1709	1713	1717	1721	1725	1729	1733	1737	1741	1745	1749	1753	1757	1761	1765	1769	1773	1777	1781	1785	1789	1793	1797	1801	1805	1809	1813	1817	1821	1825	1829	1833	1837	1841	1845	1849	1853	1857	1861	1865	1869	1873	1877	1881	1885	1889	1893	1897	1901	1905	1909	1913	1917	1921	1925	1929	1933	1937	1941	1945	1949	195
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TABLE 1 (Continued)

P_{22}^{22}	k	Numerator	Denominator	a_k	b_k
	0	563 862 029 680 583 509 947 946 875	1		1
	2	-6 202 482 326 486 418 609 427 415 625			-11
	4	31 012 511 632 432 093 047 137 076 325			122
	6	-93 037 234 897 296 278 281 822 248 765			-122
	8	186 074 469 794 592 581 822 446 250			330
	10	-250 504 257 712 479 381 593 521 426 250			-422
	12	280 504 257 712 479 381 593 521 426 250			422
	14	-186 074 469 794 592 581 822 446 250			-330
	16	93 037 234 897 296 278 281 822 248 765			122
	18	-31 012 411 632 432 093 047 137 076 325			-11
	20	6 202 482 326 486 418 609 427 415 625			1
	22	-563 862 029 680 583 509 947 946 875			-1

P_{24}^{22}	k	Numerator	Denominator	a_k	b_k
	0	-12 686 895 667 813 128 973 828 804 657.5			-1
	2	735 839 948 733 161 180 462 072 971 875			58
	4	-7 256 904 321 889 109 773 030 215 880 250			-372
	6	34 888 963 086 468 167 753 003 885 898 437.5			2 760
	8	-102 573 551 674 317 226 923 993 668 468 750			-8 085
	10	202 935 098 306 623 928 123 637 572 750 000			15 972
	12	-271 649 598 109 272 615 099 082 170 531 250			-22 176
	14	198 867 089 592 620 537 285 602 964 609 375			22 044
	16	-99 084 655 153 642 882 816 059 576 968 750			-15 675
	18	32 571 811 955 972 200 808 443 320 828 125			7 810
	20	-6 202 482 326 486 418 609 427 415 625			-2 596
	22	563 862 029 680 583 509 947 946 875			518
	24	-596 284 096 387 217 061 769 953 820 312.5			-47

P_{23}^{22}	k	Numerator	Denominator	a_k	b_k
	1	25 373 791 335 626 257 947 657 609 375			1
	3	-279 111 704 661 888 837 424 233 703 135			-11
	5	1 366 558 523 459 444 187 121 168 515 635			55
	7	-4 186 675 570 378 332 561 363 505 546 875			-165
	9	8 373 351 140 756 665 122 727 011 093 750			330
	11	-11 722 691 597 059 331 171 817 815 531 250			-422
	13	11 722 691 597 059 331 171 817 815 531 250			422
	15	-8 373 351 140 756 665 122 727 011 093 750			-330
	17	4 186 675 570 378 332 561 363 505 546 875			165
	19	-1 366 558 523 459 444 187 121 168 515 635			-55
	21	279 111 704 661 888 837 424 233 703 135			11
	23	-25 373 791 335 626 257 947 657 609 375			-1

P_{25}^{22}	k	Numerator	Denominator	a_k	b_k
	1	-596 284 096 387 217 061 769 953 820 312.5			-3
	3	16 258 431 967 917 266 355 045 404 421 875			82
	5	-139 928 001 285 533 603 828 682 496 500 000			-704
	7	634 048 755 825 074 142 348 717 562 265 625			3 190
	9	-1 803 759 391 571 331 611 854 110 306 445 312.5			-9 073
	11	3 489 454 532 057 994 245 477 769 756 468 750			17 356
	13	-4 775 043 043 868 834 230 653 790 193 582 500			-24 028
	15	4 696 323 543 145 721 578 590 059 478 681 250			22 668
	17	-3 312 381 255 420 802 919 827 331 001 825 375			-18 200
	19	1 639 781 068 684 442 711 836 144 673 937 500			8 738
	21	-107 758 660 680 633 887 683 104 990 303 125			-2 542
	23	9 739 306 907 657 878 675 575 912 398 437.5			-49

TABLE 1 (Concluded)

P_{23}^{23}	Numerator	Denominator	a_k	b_k
k	25 373 791 335 626 257 947 657 609 375			
0	25 373 791 335 626 257 947 657 609 375			
1	-279 111 704 691	192 568 192 774 434 123 539 907 640 625		
2	1 395 538 523 455			
3	-4 186 675 570 378			
4	8 373 351 440 756			
5	-11 722 691 597 059			
6	14 882 625 570 459			
7	-18 182 625 570 459			
8	21 482 625 570 459			
9	-24 782 625 570 459			
10	28 082 625 570 459			
11	-31 382 625 570 459			
12	34 682 625 570 459			
13	-37 982 625 570 459			
14	41 282 625 570 459			
15	-44 582 625 570 459			
16	47 882 625 570 459			
17	-51 182 625 570 459			
18	54 482 625 570 459			
19	-57 782 625 570 459			
20	61 082 625 570 459			
21	-64 382 625 570 459			
22	67 682 625 570 459			

P_{23}^{23}	Numerator	Denominator	a_k	b_k
k	25 373 791 335 626 257 947 657 609 375			
0	-596 284 096 387 217 061 769 953 820 312.5			
1	35 777 045 783 233 023 705 197 429 216 650			
2	-354 192 753 284 060 934 921 322 678 093 750			
3	1 705 370 671 098 194 171 367 871 337 537 500.5			
4	-5 017 370 671 098 194 171 367 871 337 537 500.5			
5	9 417 370 671 098 194 171 367 871 337 537 500.5			
6	-13 771 452 935 621 601 774 732 299 343 937 500			
7	17 000 300 715 455 190 704 012 195 654 804 687.5			
8	-20 263 754 744 623 603 369 149 495 937 765 625			
9	23 527 193 414 046 097 213 355 775 052 968 750			
10	-26 790 626 722 473 636 026 727 737 195 312.5			

P_{23}^{23}	Numerator	Denominator	a_k	b_k
k	25 373 791 335 626 257 947 657 609 375			
0	-596 284 096 387 217 061 769 953 820 312.5			
1	35 777 045 783 233 023 705 197 429 216 650			
2	-354 192 753 284 060 934 921 322 678 093 750			
3	1 705 370 671 098 194 171 367 871 337 537 500.5			
4	-5 017 370 671 098 194 171 367 871 337 537 500.5			
5	9 417 370 671 098 194 171 367 871 337 537 500.5			
6	-13 771 452 935 621 601 774 732 299 343 937 500			
7	17 000 300 715 455 190 704 012 195 654 804 687.5			
8	-20 263 754 744 623 603 369 149 495 937 765 625			
9	23 527 193 414 046 097 213 355 775 052 968 750			
10	-26 790 626 722 473 636 026 727 737 195 312.5			

P_{24}^{23}	Numerator	Denominator	a_k	b_k
k	1 192 568 192 774 434 123 539 907 640 625			
1	1 192 568 192 774 434 123 539 907 640 625			
2	-13 118 250 120 518 775 358 938 984 046 875			
3	65 591 250 602 593 876 754 694 920 234 375			
4	-196 773 751 807 781 630 384 084 760 703 125			
5	393 547 503 615 563 260 768 169 521 406 250			
6	-590 966 505 061 788 565 075 437 329 968 750			
7	787 773 751 807 781 630 384 084 760 703 125			
8	-984 541 008 677 351 825 843 606 851 375 000			
9	1 181 533 010 123 577 130 150 876 659 947 500			
10	-1 378 511 008 677 351 825 843 606 851 375 000			
11	1 575 533 010 123 577 130 150 876 659 947 500			
12	-1 772 511 008 677 351 825 843 606 851 375 000			
13	1 969 533 010 123 577 130 150 876 659 947 500			
14	-2 166 511 008 677 351 825 843 606 851 375 000			
15	2 363 533 010 123 577 130 150 876 659 947 500			
16	-2 560 511 008 677 351 825 843 606 851 375 000			
17	2 757 533 010 123 577 130 150 876 659 947 500			
18	-2 954 511 008 677 351 825 843 606 851 375 000			
19	3 151 533 010 123 577 130 150 876 659 947 500			
20	-3 348 511 008 677 351 825 843 606 851 375 000			
21	3 545 533 010 123 577 130 150 876 659 947 500			
22	-3 742 511 008 677 351 825 843 606 851 375 000			
23	3 939 533 010 123 577 130 150 876 659 947 500			

P_{24}^{24}	Numerator	Denominator	a_k	b_k
k	1 192 568 192 774 434 123 539 907 640 625			
0	1 192 568 192 774 434 123 539 907 640 625			
1	-14 300 808 312 193 245 482 178 681 687 500			
2	78 709 600 712 193 245 482 178 681 687 500			
3	-262 369 002 440 372 602 152 633 784 281 250			
4	590 321 255 423 345 891 123 259 889 376 375			
5	-944 511 008 677 351 825 843 606 851 375 000			
6	1 401 533 010 123 577 130 150 876 659 947 500			
7	-1 854 511 008 677 351 825 843 606 851 375 000			
8	2 307 533 010 123 577 130 150 876 659 947 500			
9	-2 760 511 008 677 351 825 843 606 851 375 000			
10	3 213 533 010 123 577 130 150 876 659 947 500			
11	-3 666 511 008 677 351 825 843 606 851 375 000			
12	4 119 533 010 123 577 130 150 876 659 947 500			
13	-4 572 511 008 677 351 825 843 606 851 375 000			
14	5 025 533 010 123 577 130 150 876 659 947 500			
15	-5 478 511 008 677 351 825 843 606 851 375 000			
16	5 931 533 010 123 577 130 150 876 659 947 500			
17	-6 384 511 008 677 351 825 843 606 851 375 000			
18	6 837 533 010 123 577 130 150 876 659 947 500			
19	-7 290 511 008 677 351 825 843 606 851 375 000			
20	7 743 533 010 123 577 130 150 876 659 947 500			
21	-8 196 511 008 677 351 825 843 606 851 375 000			
22	8 649 533 010 123 577 130 150 876 659 947 500			
23	-9 102 511 008 677 351 825 843 606 851 375 000			

P_{25}^{23}	Numerator	Denominator	a_k	b_k
k	58 435 841 445 947 272 053 455 474 390 625			
1	58 435 841 445 947 272 053 455 474 390 625			
2	-701 230 097 351 367 264 641 465 692 687 500			
3	3 856 765 535 432 519 955 528 061 309 781 250			
4	-12 855 685 118 108 399 851 760 204 365 937 500			
5	28 925 741 512 743 899 851 760 204 365 937 500			
6	-43 855 685 118 108 399 851 760 204 365 937 500			
7	58 785 741 512 743 899 851 760 204 365 937 500			
8	-73 715 741 512 743 899 851 760 204 365 937 500			
9	88 645 741 512 743 899 851 760 204 365 937 500			
10	-103 575 741 512 743 899 851 760 204 365 937 500			
11	118 505 741 512 743 899 851 760 204 365 937 500			
12	-133 435 741 512 743 899 851 760 204 365 937 500			
13	148 365 741 512 743 899 851 760 204 365 937 500			
14	-163 295 741 512 743 899 851 760 204 365 937 500			
15	178 225 741 512 743 899 851 760 204 365 937 500			
16	-193 155 741 512 743 899 851 760 204 365 937 500			
17	208 085 741 512 743 899 851 760 204 365 937 500			
18	-223 015 741 512 743 899 851 760 204 365 937 500			
19	237 945 741 512 743 899 851 760 204 365 937 500			
20	-252 875 741 512 743 899 851 760 204 365 937 500			
21	267 805 741 512 743 899 851 760 204 365 937 500			
22	-282 735 741 512 743 899 851 760 204 365 937 500			
23	297 665 741 512 743 899 851 760 204 365 937 500			
24	-312 595 741 512 743 899 851 760 204 365 937 500			
25	327 525 741 512 743 899 851 760 204 365 937 500			

TABLE 2. CROSS-REFERENCED ZEROES

$P_n^{(Cos u)} = 0 \quad n = 1, \dots, 25$									
1	2	3	4	5	6	7	8	9	10
00000 90.000	57735 54.736	77460 39.232	86114 30.556	90618 25.017	93022 33.878	87174 29.338	89976 25.874	91953 23.142	93400 20.933
56121 43.608	74753 42.738	79667 37.187	83603 33.277	86506 30.110	88000 90.000	89970 53.722	91953 47.376	93400 42.373	94848 38.327
23862 76.195	47585 66.056	52553 58.296	61337 52.166	67941 47.202	71000 90.000	72929 77.919	74792 68.708	76524 61.450	78448 55.581
	00000 90.000	18343 79.430	32425 71.080	43340 64.317	50000 90.000	50000 90.000	50000 90.000	50000 90.000	50000 90.000
11	12	13	14	15	16	17	18	19	20
97423 11.975	94156 11.020	98419 10.204	98628 9.501	98799 8.898	94490 19.109	95331 17.577	95994 16.273	96525 15.150	96957 14.171
82706 27.494	95412 25.295	91760 23.423	92843 21.808	93727 20.401	81928 34.987	84635 32.183	86780 29.796	88508 27.738	89920 25.947
73010 43.101	75900 33.655	80158 36.719	82720 34.198	84921 31.963	63288 50.737	68619 46.671	72887 43.208	76352 40.228	79201 37.626
51910 58.728	56703 54.033	64235 50.033	68729 46.584	72442 43.569	39953 66.451	48201 61.124	55064 56.389	60623 52.681	65239 49.278
26354 74.363	35793 68.018	44843 63.353	51325 58.886	57097 55.182	13655 82.152	24929 75.585	34272 69.957	42064 65.125	48606 60.918
00000 90.000	12523 82.806	23046 76.678	31911 71.391	39415 66.737	00000 90.000	00000 90.000	11633 83.320	21535 77.564	29983 72.553
21	22	23	24	25	26	27	28	29	30
99375 6.452	13429 6.123	99477 5.463	99519 5.624	99556 5.403	97313 13.312	97611 12.550	97861 11.871	98074 11.262	98257 10.712
96723 14.709	17006 14.056	97254 13.458	97473 12.908	97666 12.402	91088 24.373	92065 22.978	92890 21.736	93593 20.620	94198 19.614
92010 23.059	92596 22.035	93297 21.097	93827 20.236	94297 19.443	81570 35.344	83559 33.322	85246 31.520	86698 29.902	87929 28.443
85336 31.421	86561 30.724	87675 29.747	88642 28.574	89499 27.493	69103 46.288	72368 43.641	75149 41.280	77537 39.162	79600 37.250
78434 33.776	79727 33.018	80489 32.401	82000 34.915	83344 33.546	54139 57.222	58850 53.940	62891 51.030	66378 48.411	69405 46.048
66714 48.153	69459 45.614	71866 44.056	74012 42.258	75926 40.601	37217 68.150	43442 64.252	48823 60.776	53499 57.657	57583 54.842
55762 56.532	59764 54.012	61967 51.712	64803 49.602	67357 47.657	18951 79.076	26636 74.552	33350 70.518	39235 66.898	44412 63.433
42434 64.891	45974 62.008	49542 59.363	54542 56.947	57766 54.714	00000 90.000	08975 84.851	16919 80.260	23955 76.140	30199 72.423
28460 73.257	31705 70.605	35030 67.027	43379 64.291	47300 61.771	98415 10.214	98553 9.760	98673 9.344	98755 8.963	98827 8.611
14556 81.637	17803 78.003	26414 74.684	31504 71.537	36117 68.828	94720 18.701	95176 17.869	95575 17.109	95975 16.410	96238 15.766
00000 90.000	56574 86.001	13326 82.342	19112 78.982	24337 75.885	81395 35.516	82965 33.937	84346 32.492	85652 31.165	86652 29.943
					72049 43.905	74370 41.953	76417 40.167	78448 38.527	79848 37.015
					61167 52.290	64326 49.964	67114 47.837	69884 45.884	71833 44.064
					48981 60.672	53031 57.973	56132 55.505	58239 53.239	60229 51.150
					35752 69.052	40704 65.981	45132 63.172	49592 60.592	52674 58.215
					21761 77.433	27584 73.988	32825 70.838	37945 67.945	41820 65.278
					07305 85.811	13928 81.994	19932 78.503	25299 75.299	30333 72.342
					00000 90.000	00000 90.000	06684 86.168	82.648	10386 79.406
								90.000	106160 86.469

$$P_n^2(\cos \mu) = 0 \quad n = 3, \dots, 25$$

$P_n^C(\cos u) = 0 \quad n = 3, \dots, 25$									
3	4	5	6	7	8	9	10	11	12
-0.0000	90.0000	-0.37796	67.7920	-0.57735	54.7360	-0.00000	90.0000	-0.57735	54.7360
13	14	15	16	17	18	19	20	21	22
-0.92802	21.872	93.756	20.354	-0.96541	15.1115	-0.96869	14.375	-0.98006	12.023
23	24	25	26	27	28	29	30	31	32
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
33	34	35	36	37	38	39	40	41	42
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
43	44	45	46	47	48	49	50	51	52
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
53	54	55	56	57	58	59	60	61	62
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
63	64	65	66	67	68	69	70	71	72
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
73	74	75	76	77	78	79	80	81	82
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
83	84	85	86	87	88	89	90	91	92
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
93	94	95	96	97	98	99	100	101	102
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
103	104	105	106	107	108	109	110	111	112
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
113	114	115	116	117	118	119	120	121	122
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
123	124	125	126	127	128	129	130	131	132
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
133	134	135	136	137	138	139	140	141	142
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
143	144	145	146	147	148	149	150	151	152
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
153	154	155	156	157	158	159	160	161	162
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
163	164	165	166	167	168	169	170	171	172
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
173	174	175	176	177	178	179	180	181	182
97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536	97.616	12.536
183	184	185	186	187	188	189	190	191	192</

$$P_n(\cos u) = 0 \quad n = 4, \dots, 25$$
[illegible]

TABLE 2 (Continued)

$P_n^4(\cos \theta) = 0 \quad n = 5, \dots, 25$											$P_n^5(\cos \theta) = 0 \quad n = 6, \dots, 25$															
6	7	8	9	10	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
30151 72 452	48033 61 289	59741 53 316	67860 47 266	73737 42 493	.00000 90 000	.00000 90 000	.27735 73 898	.44721 63 435	.56185 55 816	.64358 49 941	.70414 45 240	.75035 41 379	.78645 38 145	.81521 35 392	.83851 33 017	.85765 30 947	.87356 29 125	.88695 27 508	.89831 26 064	.90803 24 765	.91575 23 687	.92418 22 454	.93141 21 344	.93571 20 658	.94066 19 836	
	.00000 90 000	.20762 78 017	.35741 69 059	.46890 62 037		.00000 90 000	.00000 90 000	.00000 90 000	.19305 78 869	.33484 70 437	.44236 63 746	.52586 58 274	.59201 53 700	.64528 49 813	.68881 46 464	.72482 43 546	.75495 40 379	.78040 38 703	.80210 36 668	.82074 34 841	.83771 33 542	.85094 31 686	.86325 30 316	.87411 29 060	.88373 27 905	
			.00000 90 000	.11693 80 739							.15097 81 317	.27109 74 271	.36801 66 407	.44721 63 435	.51268 59 158	.56735 55 434	.61344 52 161	.65263 49 260	.68821 46 869	.71520 44 340	.73683 42 538	.76116 40 434	.78175 38 579	.79884 36 980	.81402 35 510	
												.00000 90 000	.12486 82 827	.22885 76 770	.31611 71 572	.38986 67 054	.45265 63 086	.50647 59 571	.55290 56 434	.59321 53 615	.62840 51 068	.65928 48 755	.68553 46 644	.71067 44 710	.73216 42 932	
														.00000 90 000	.10681 83 869	.19848 78 552	.27749 73 890	.34590 69 763	.40542 66 083	.45744 62 778	.50313 59 792	.54344 57 082	.57915 54 609	.61093 52 344	.63930 50 260	
																										.50120 59 921
																										.53679 57 535
																										.56719 58 865
																										.58492 54 202
																										.61093 52 344
																										.63930 50 260
																										.66579 57 736
																										.69667 60 667
																										.72554 64 380
																										.75705 67 576
																										.78830 70 389
																										.81995 73 995
																										.85227 77 000
																										.88401 80 401

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TABLE 2 (Continued)

$P_n^{(\cos \mu)} = 0 \quad n = 7, \dots, 25$									
7	8	9	10	11	12	13	14	15	16
0.0000 90.000°	.25820 75.037°	42.998 65.160°	53.195 57.863°	.18117 79.562°	.76044 40.497°	.79095 37.726°	.62066 51.636°	.42774 64.576°	.21818 77.398°
.00000 90.000°	.00000 90.000°	.11865 83.186°	.00000 90.000°	.00000 90.000°	.76044 40.497°	.79095 37.726°	.62066 51.636°	.42774 64.576°	.21818 77.398°
.61342 35.320°	.72263 43.728°	.56721 55.444°	.62066 51.636°	.42774 64.576°	.21818 77.398°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°
.3503 71.574°	.50163 59.892°	.35065 69.473°	.21818 77.398°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°
.00000 90.000°	.14266 81.798°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°
.81594 35.320°	.85407 31.343°	.86882 29.678°	.88143 28.185°	.89143 26.710°	.90098 24.497°	.90998 22.537°	.91723 23.475°	.92364 22.537°	.92864 22.537°
.66479 48.334°	.73276 42.881°	.75926 40.601°	.78200 38.586°	.80143 36.702°	.81756 35.158°	.83157 33.325°	.84310 31.343°	.85149 31.626°	.85749 31.626°
.49206 60.524°	.54624 56.890°	.59229 53.680°	.63175 50.821°	.66579 48.237°	.69449 45.821°	.71723 43.728°	.73276 42.881°	.74926 40.601°	.76044 40.497°
.30232 72.403°	.37398 68.039°	.43542 64.189°	.48844 60.762°	.53448 57.691°	.57448 54.821°	.60948 52.185°	.64048 50.000°	.66748 48.334°	.69048 46.185°
.10197 84.147°	.18998 79.048°	.26628 74.557°	.33273 70.565°	.39087 66.991°	.44048 63.821°	.48148 61.185°	.51448 59.000°	.54048 56.890°	.56048 54.821°
.00000 90.000°	.08961 84.859°	.16852 80.298°	.23821 76.219°	.30000 72.403°	.35448 68.039°	.40148 64.189°	.44048 60.762°	.47148 57.691°	.50048 55.444°
.89230 26.936°	.90174 25.612°	.91723 23.475°	.92864 22.537°	.93643 21.600°	.94143 20.710°	.94443 19.821°	.94643 18.931°	.94743 18.041°	.94843 17.151°
.80168 36.719°	.81681 35.034°	.83381 33.508°	.84703 32.110°	.85873 30.825°	.86873 29.678°	.87706 28.710°	.88431 27.448°	.89053 26.294°	.89573 25.235°
.57469 54.922°	.60999 52.411°	.64114 50.123°	.66875 48.030°	.69333 46.106°	.71443 44.443°	.73276 42.881°	.74926 40.601°	.76044 40.497°	.76644 40.497°
.44198 63.770°	.48709 60.850°	.52709 58.191°	.56268 55.758°	.59449 53.523°	.62268 51.443°	.64748 49.519°	.66948 47.843°	.68848 46.419°	.70448 45.143°
.29995 72.545°	.35481 69.218°	.40372 66.189°	.44747 63.419°	.48673 60.874°	.52148 58.543°	.55148 56.419°	.57748 54.443°	.60048 52.619°	.62048 50.943°
.15158 81.282°	.21567 77.545°	.27319 74.146°	.32495 71.038°	.37162 68.184°	.41343 65.619°	.45043 63.343°	.48243 61.185°	.50943 59.151°	.53143 57.235°
.00000 90.000°	.07236 85.851°	.13782 82.078°	.19712 78.632°	.25091 75.469°	.29941 72.545°	.34241 70.000°	.38041 67.821°	.41341 65.931°	.44141 64.255°
.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°

TABLE 2 (Continued)

$P_n^8(\cos \theta) = 0 \quad n = 9, \dots, 25$										$P_n^9(\cos \theta) = 0 \quad n = 10, \dots, 25$									
11	12	13	14	15	16	17	18	19	20	9	10	11	12	13	14	15	16	17	18
.37796 67.792°	.48412 61.045°	.56387 55.676°	.62580 51.259°	.67505 47.542°	.71497 44.359°	.74783 41.597°	.77524 39.173°	.79835 37.027°	.81804 35.111°	.00000 90.000°	.22942 76.737°	.21822 77.396°	.36116 68.829°	.46457 62.318°	.54319 57.096°	.60489 52.779°	.65445 49.122°	.69498 45.974°	.72861 43.230°
.00000 90.000°	.16279 80.631°	.28644 73.355°	.38362 67.442°	.46179 62.498°	.52575 58.282°	.57882 54.632°	.62340 51.435°	.66121 48.608°	.69357 46.086°	.38362 67.442°	.46179 62.498°	.54319 57.096°	.60489 52.779°	.65445 49.122°	.69498 45.974°	.72861 43.230°	.75687 40.811°	.78087 38.660°	.80143 36.734°
.10860 83.766°	.20068 78.423°	.27944 73.773°	.34730 69.678°	.40617 66.036°	.45736 62.783°	.50328 59.317°	.54356 56.230°	.57882 54.632°	.60906 52.496°	.12948 82.561°	.23495 76.412°	.36116 68.829°	.46457 62.318°	.54319 57.096°	.60489 52.779°	.65445 49.122°	.69498 45.974°	.72861 43.230°	.75687 40.811°
.00000 90.000°	.00000 90.000°	.09400 84.606°	.17583 79.873°	.24743 75.675°	.30940 71.818°	.36267 68.196°	.40840 65.111°	.44716 62.667°	.48046 60.406°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°
21	22	23	24	25	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
.83495 33.389°	.84959 31.833°	.86235 30.418°	.87354 29.127°	.88342 27.943°	.71497 44.359°	.74783 41.597°	.77524 39.173°	.79835 37.027°	.81804 35.111°	.80143 36.734°	.81919 34.996°	.83464 33.421°	.84818 31.986°	.86011 30.671°	.87099 29.461°	.88087 28.346°	.88987 27.319°	.89807 26.374°	.90556 25.514°
.72150 43.922°	.74576 41.776°	.76697 39.917°	.78564 38.220°	.80214 36.665°	.62340 51.435°	.65736 48.608°	.68689 46.115°	.71060 44.716°	.72944 43.631°	.70455 45.206°	.70455 45.206°	.72944 43.631°	.75114 41.310°	.77039 39.611°	.78746 38.020°	.80256 36.536°	.81607 35.149°	.82827 33.854°	.83936 32.649°
.59538 53.460°	.62988 50.959°	.66016 48.688°	.68689 46.615°	.71060 44.716°	.52575 58.282°	.55954 56.027°	.58840 53.718°	.61216 51.355°	.63166 49.036°	.57941 54.591°	.57941 54.591°	.58840 53.718°	.59538 53.460°	.60166 52.222°	.60736 51.027°	.61256 49.874°	.61736 48.764°	.62176 47.694°	.62576 46.664°
.45754 62.772°	.50261 59.827°	.54237 57.135°	.57760 54.718°	.60896 52.496°	.39541 66.709°	.42944 64.233°	.45840 61.818°	.48216 59.455°	.50166 57.135°	.44414 63.631°	.44414 63.631°	.45840 61.818°	.47291 59.999°	.48691 58.274°	.49941 56.649°	.51056 55.119°	.52036 53.684°	.52886 52.344°	.53616 51.094°
.31038 71.918°	.36596 68.533°	.41527 65.464°	.45916 62.667°	.49840 60.106°	.20068 78.423°	.22240 77.150°	.24068 75.833°	.25536 74.566°	.26746 73.344°	.30077 72.496°	.30077 72.496°	.31538 71.255°	.32941 69.999°	.34291 68.729°	.35591 67.449°	.36746 66.164°	.37856 64.874°	.38826 63.579°	.39656 62.279°
.15681 80.978°	.22240 77.150°	.28095 73.683°	.33337 70.526°	.38046 67.638°	.10860 83.766°	.16279 80.631°	.21497 77.443°	.26316 74.166°	.30636 70.849°	.14172 81.853°	.14172 81.853°	.15681 80.978°	.17136 79.649°	.18546 78.279°	.19916 76.864°	.21246 75.404°	.22536 73.899°	.23786 72.349°	.24996 70.754°
.00000 90.000°	.07461 85.721°	.14172 81.853°	.20220 78.334°	.25636 75.117°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°	.00000 90.000°

52

[illegible]

TABLE 2 (Concluded)

$P_n^{19}(\cos \theta) = 0 \quad n = 20, \dots, 25$		$P_n^{23}(\cos \theta) = 0 \quad n = 24, 25$	
²¹	²²	²³	²⁵
.15617 81.015°	.26414 74.684°	.34708 69.691°	.41399 65.545°
	.00000 90.000°	.11345 83.486°	.20343 8.263°
		.00000 90.000°	.2774 73.875°
			.09225 84.707°
		²⁰	²⁴
		.00000 90.000°	.00000 90.000°
²¹	²²	²³	²⁵
.00000 90.000°	.15250 81.228°	.25820 75.037°	.33965 70.144°
		.00000 90.000°	.11088 83.634°
			.40557 66.073°
			.19899 78.522°
			.00000 90.000°
		²⁰	²⁴
		.00000 90.000°	.00000 90.000°
$P_n^{21}(\cos \theta) = 0 \quad n = 22, \dots, 25$		$P_n^{24}(\cos \theta) = 0$	
²²	²³	²⁴	²⁵
.00000 90.000°	.14907 81.427°	.25265 75.366°	.33269 70.568°
		.00000 90.000°	.10849 83.772°
$P_n^{22}(\cos \theta) = 0 \quad n = 23, \dots, 25$		$P_n^{25}(\cos \theta) = 0$	
²³	²⁴	²⁵	
.00000 90.000°	.14586 81.613°	.24744 75.674°	
		.00000 90.000°	

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55

TABLE 3 (Continued)

Cos θ	θ	m	n	Cos θ	θ	m	n	Cos θ	θ	m	n	Cos θ	θ	m	n
.78179	38.575°	6	25	.71497	44.359°	8	16	.67119	47.376°	1	8	.64445	49.876°	9	24
.76175	38.579°	5	23	.71395	44.442°	10	24	.67108	47.384°	7	22	.64358	49.941°	1	21
.74151	38.601°	0	17	.71238	44.571°	7	19	.67053	47.427°	10	18	.64355	49.943°	12	20
.72132	38.619°	4	11	.71074	44.705°	10	19	.67018	47.454°	9	23	.64342	49.953°	9	20
.70087	38.660°	9	20	.71067	44.710°	5	25	.67015	47.456°	9	21	.64326	49.964°	1	22
.78040	38.703°	5	18	.71060	44.716°	8	25	.67014	47.488°	4	17	.64310	49.976°	7	17
.77997	38.742°	2	12	.70864	44.875°	4	18	.67004	47.496°	2	25	.64235	50.033°	0	13
.77920	38.813°	4	16	.70836	44.898°	12	22	.67005	47.496°	8	15	.64114	50.123°	6	23
.77878	38.851°	3	14	.70795	45.005°	14	25	.67002	47.552°	6	12	.64064	50.160°	3	7
.77620	39.086°	12	25	.70582	45.104°	4	22	.67030	47.631°	11	24	.63930	50.260°	5	25
.77554	39.146°	3	9	.70480	45.187°	3	12	.67037	47.657°	0	25	.63910	50.275°	2	20
.77537	39.166°	1	19	.70455	45.206°	9	22	.67038	47.696°	4	13	.63722	50.415°	15	24
.77524	39.173°	8	18	.70414	45.240°	5	11	.67146	47.820°	9	25	.63705	50.428°	4	16
.77460	39.233°	0	13	.70343	45.297°	7	23	.67124	47.837°	3	23	.63644	50.473°	3	18
.77172	39.485°	2	21	.70165	45.740°	6	17	.67082	47.866°	3	19	.63605	50.502°	0	20
.77074	39.589°	11	23	.70152	45.451°	3	16	.67004	47.930°	2	21	.63559	50.536°	10	17
.77039	39.611°	9	25	.70082	45.457°	3	24	.66875	48.030°	6	24	.63288	50.737°	1	11
.76990	39.655°	0	12	.70080	45.509°	3	20	.66782	48.101°	15	25	.63175	50.821°	6	19
.76981	39.663°	3	23	.69946	45.616°	11	25	.66714	48.153°	0	21	.63119	50.862°	3	25
.76946	39.695°	2	7	.69767	45.760°	7	14	.66579	48.257°	6	20	.63076	50.894°	12	24
.76887	39.746°	4	25	.69725	45.793°	2	22	.66479	48.334°	6	16	.62988	50.959°	8	22
.76855	39.776°	7	16	.69612	45.884°	1	24	.66388	48.404°	13	22	.62980	50.965°	10	25
.76844	39.796°	0	21	.69576	45.912°	2	18	.66378	48.411°	1	19	.62891	51.030°	1	18
.76697	39.917°	8	23	.69536	45.944°	6	21	.66364	48.422°	3	17	.62882	51.037°	4	23
.76506	40.098°	1	5	.69498	45.974°	9	17	.66201	48.547°	2	15	.62873	51.043°	13	21
.76438	40.148°	10	21	.69475	45.993°	2	6	.66121	48.608°	8	19	.62640	51.068°	5	21
.76417	40.167°	1	23	.69449	46.014°	0	22	.66121	48.608°	8	19	.62640	51.068°	5	21
.76398	40.183°	6	24	.69407	46.047°	11	20	.66016	48.688°	8	23	.62728	51.143°	2	9
.76352	40.225°	1	14	.69407	46.047°	13	23	.66016	48.688°	8	23	.62728	51.143°	2	9
.76327	40.247°	7	21	.69405	46.048°	1	20	.65997	48.703°	10	22	.62697	51.173°	10	21
.76240	40.324°	5	22	.69392	46.059°	2	14	.65944	48.743°	11	19	.62502	51.316°	16	25
.76161	40.394°	2	25	.69357	46.086°	8	20	.65728	48.755°	5	22	.62442	51.360°	7	24
.76116	40.434°	4	20	.69333	46.106°	6	25	.65767	48.872°	0	17	.62340	51.435°	8	18
.76102	40.446°	2	16	.69206	46.207°	2	10	.65695	48.932°	4	24	.62246	51.504°	2	16
.76054	40.488°	3	18	.69169	46.236°	0	19	.65465	49.107°	1	4	.62186	51.548°	2	23
.76044	40.498°	6	14	.69103	46.288°	1	16	.65445	49.122°	9	16	.62066	51.636°	6	15
.75926	40.497°	0	25	.68881	46.464°	5	15	.65327	49.211°	3	11	.62038	51.656°	4	12
.75926	40.601°	6	19	.68873	46.471°	10	23	.65263	49.260°	5	18	.61961	51.712°	0	23
.75867	40.811°	9	19	.68729	46.584°	0	14	.65239	49.278°	7	15	.61825	51.811°	11	18
.75656	40.838°	12	24	.68689	46.615°	8	24	.65229	49.286°	7	15	.61823	51.813°	3	14
.75540	40.939°	0	16	.68653	46.644°	5	23	.65026	49.439°	2	24	.61788	51.939°	0	16
.75495	40.979°	5	17	.68621	46.664°	6	22	.65015	49.447°	14	23	.61752	51.865°	13	25
.75449	41.280°	1	18	.68619	46.671°	1	12	.64951	49.496°	2	13	.61705	51.899°	3	21
.75114	41.310°	9	24	.68205	46.996°	4	25	.64900	49.534°	7	13	.61688	52.057°	14	22
.75039	41.376°	4	15	.68058	47.111°	14	24	.64860	49.564°	4	20	.61397	52.123°	9	23
.75028	41.379°	5	12	.68054	47.114°	7	18	.64809	49.577°	3	22	.61366	52.145°	4	19
.75028	41.385°	4	24	.67941	47.202°	0	10	.64809	49.602°	0	24	.61344	52.161°	5	17
.74991	41.417°	2	20	.67908	47.228°	4	21	.64709	49.678°	7	21	.61342	52.163°	6	11
.74968	41.437°	3	22	.67860	47.266°	4	9	.64528	49.678°	5	14	.61337	52.166°	0	9
.74983	41.511°	11	22	.67849	47.274°	12	21	.64487	49.844°	11	23	.61275	52.211°	7	20

TABLE 3 (Continued)

Cos θ	θ	m	n	Cos θ	θ	m	n	Cos θ	θ	m	n	Cos θ	θ	m	n
.57735	54.736°	0	2	.54237	57.155°	8	23	.51097	59.278°	0	20	.47446	61.575°	2	25
.57735	54.736°	2	5	.54139	57.222°	1	16	.51028	59.317°	8	19	.47375	61.722°	7	17
.57593	54.846°	2	15	.54073	57.267°	3	19	.50950	59.369°	0	23	.47300	61.771°	0	25
.57578	54.846°	6	21	.54060	57.275°	2	8	.50816	59.459°	9	17	.47250	61.803°	7	23
.57469	54.922°	6	21	.54000	57.316°	9	21	.50782	59.481°	11	16	.47223	61.821°	7	20
.57359	54.999°	11	21	.53847	57.421°	0	5	.50647	59.571°	5	18	.47213	61.827°	4	16
.57358	55.000°	14	21	.53826	57.435°	12	25	.50635	59.579°	7	11	.47122	61.887°	2	22
.57339	55.013°	4	18	.53815	57.442°	13	19	.50313	59.792°	5	21	.46964	61.989°	4	13
.57320	55.026°	7	19	.53731	57.500°	17	24	.50270	59.821°	13	22	.46955	61.995°	19	25
.57184	55.121°	14	25	.53679	57.535°	5	25	.50261	59.827°	8	22	.46938	62.008°	0	22
.57097	55.182°	0	15	.53616	57.577°	4	14	.50163	59.892°	6	13	.46928	62.012°	16	25
.57049	55.216°	3	23	.53499	57.657°	1	19	.50120	59.921°	5	24	.46890	62.037°	4	10
.56983	55.345°	11	17	.53456	57.686°	3	22	.50091	59.940°	3	6	.46885	62.040°	1	6
.56735	55.434°	6	16	.53405	57.691°	5	20	.50037	59.976°	16	22	.46762	62.120°	11	22
.56721	55.444°	6	14	.53405	57.720°	14	24	.49952	60.032°	12	24	.46703	62.158°	2	19
.56633	55.505°	1	23	.53195	57.963°	6	10	.49840	60.106°	8	25	.46568	62.246°	14	19
.56524	55.581°	1	10	.53031	57.973°	1	22	.49586	60.274°	3	12	.46457	62.318°	0	19
.56466	55.621°	10	23	.53001	57.994°	3	25	.49479	60.344°	9	20	.46457	62.318°	9	13
.56387	55.676°	8	13	.52939	58.036°	11	20	.49440	60.370°	3	15	.46440	62.329°	12	20
.56324	55.720°	3	13	.52814	58.120°	9	24	.49434	60.374°	3	24	.46401	62.354°	11	25
.56324	55.720°	9	25	.52734	58.174°	7	18	.49412	60.388°	3	21	.46179	62.498°	8	15
.56307	55.732°	2	18	.52710	58.190°	2	11	.49406	60.392°	3	18	.46179	62.516°	5	23
.56268	55.758°	6	24	.52709	58.191°	6	23	.49253	60.493°	12	17	.46141	62.522°	2	16
.56185	55.816°	5	9	.52674	58.215°	1	25	.49222	60.513°	10	18	.45916	62.667°	8	24
.56145	55.844°	4	21	.52668	58.219°	4	17	.49206	60.524°	6	16	.45902	62.741°	0	16
.56084	55.886°	9	18	.52665	58.221°	18	25	.49102	60.592°	1	24	.45754	62.772°	8	21
.56069	55.896°	15	22	.52586	58.274°	5	12	.49078	60.604°	14	23	.45744	62.778°	5	20
.55977	55.960°	0	18	.52575	58.282°	8	16	.48981	60.672°	1	21	.45736	62.783°	8	18
.55945	55.982°	12	22	.52553	58.296°	0	8	.48943	60.697°	17	23	.45562	62.895°	12	23
.55782	56.095°	7	22	.52543	58.303°	10	22	.48869	60.746°	9	23	.45463	62.959°	3	23
.55586	56.230°	8	20	.52462	58.357°	14	20	.48844	60.762°	4	10	.45380	63.012°	15	20
.55491	56.357°	2	21	.52462	58.358°	10	15	.48823	60.776°	1	18	.45348	63.033°	2	13
.55290	56.434°	5	19	.52258	58.495°	15	25	.48793	60.795°	13	25	.45265	63.086°	5	17
.55286	56.437°	4	24	.52223	58.518°	3	6	.48790	60.850°	6	22	.45214	63.119°	13	21
.55276	56.443°	12	18	.52090	58.607°	4	20	.48673	60.974°	6	25	.45132	63.172°	1	23
.55162	56.522°	0	21	.52021	58.654°	2	14	.48606	60.918°	1	15	.44849	63.353°	0	13
.55162	56.522°	11	24	.51910	58.728°	0	11	.48412	61.045°	8	12	.44841	63.358°	3	20
.55099	56.565°	11	24	.51781	58.815°	7	21	.48291	61.124°	1	12	.44747	63.419°	6	24
.55064	56.588°	1	13	.51708	58.865°	4	23	.48263	61.274°	10	21	.44721	63.435°	1	3
.54956	56.663°	3	16	.51607	58.931°	2	17	.48047	61.284°	7	14	.44721	63.435°	5	8
.54863	56.727°	16	23	.51553	58.967°	12	21	.48038	61.289°	4	7	.44721	63.435°	10	14
.54756	56.800°	7	25	.51525	58.986°	0	14	.47967	61.336°	15	24	.44721	63.435°	5	14
.54725	56.822°	2	24	.51498	59.004°	10	25	.47918	61.368°	18	24	.44690	63.455°	9	25
.54631	56.886°	13	23	.51331	59.115°	2	20	.47894	61.384°	4	25	.44513	63.568°	9	16
.54624	56.890°	6	17	.51269	59.157°	0	17	.47854	61.410°	13	18	.44450	63.609°	13	24
.54542	56.947°	0	24	.51268	59.158°	5	15	.47792	61.450°	1	9	.44414	63.631°	9	22
.54530	56.955°	7	15	.51214	59.194°	7	24	.47770	61.465°	11	19	.44412	63.633°	1	20
.54444	57.014°	10	19	.51207	59.198°	15	21	.47696	61.513°	4	22	.44412	63.719°	16	21
.54344	57.082°	5	22	.51199	59.204°	11	23	.47687	61.584°	10	24	.44258	63.733°	9	19
.54319	57.099°	9	14	.51136	59.248°	2	23	.47468	61.661°	4	19	.44236	63.746°	5	11

TABLE 3 (Continued)

Cos "	"	m	n	Cos "	"	m	n	Cos "	"	m	n	Cos "	"	m	n	Cos "	"	m	n
37291	68.105	15	22	33965	70.144	20	24	30541	72.217	15	21	27319	74.145	6	23	24126	76.039	4	13
37266	68.123	16	20	33856	70.205	13	22	30521	72.229	3	25	27271	74.174	9	24	23955	76.140	1	19
37251	68.150	1	16	33748	70.277	3	18	30496	72.244	3	15	27109	74.271	5	12	23839	76.149	9	21
37217	68.150	1	16	33621	70.354	11	25	30491	72.247	3	20	27059	74.306	18	21	23828	76.156	13	23
37163	68.184	11	23	33594	70.370	9	20	30433	72.342	1	25	26992	74.344	3	17	23862	76.195	0	6
37162	68.184	6	25	33564	70.389	5	23	30232	72.403	6	16	26979	74.348	9	19	23821	76.219	6	20
36947	68.317	10	16	33555	70.394	7	15	30232	72.403	6	16	26979	74.348	9	19	23814	76.223	13	18
36870	68.364	9	15	33484	70.437	5	10	30199	72.423	1	20	26904	74.363	0	11	23495	76.412	8	15
36801	68.402	5	13	33350	70.518	1	18	30151	72.452	4	6	26804	74.452	4	23	23414	76.518	14	24
36793	68.416	9	12	33337	70.526	4	24	30077	72.452	14	17	26628	74.552	1	17	23302	76.525	2	13
36721	68.456	5	21	33333	70.529	3	5	30017	72.532	7	12	26616	74.564	14	22	23224	76.571	4	20
36596	68.533	9	22	33333	70.529	11	14	29995	72.546	6	21	26516	74.623	10	25	23209	76.580	10	22
36571	68.545	4	25	33273	70.565	4	10	29983	72.553	1	15	26510	74.623	2	23	23111	76.637	14	16
36394	68.655	16	23	33269	70.568	21	25	29940	72.555	10	18	26464	74.654	7	24	23046	76.676	0	13
36352	68.684	17	21	33261	70.572	12	19	29940	72.555	10	18	26414	74.684	0	23	22990	76.709	7	21
36312	68.704	1	8	33198	70.611	4	14	29940	72.555	10	18	26414	74.684	0	23	22942	76.737	8	10
36229	68.759	2	25	33163	70.632	2	9	29972	72.679	1	10	26383	74.703	10	15	22888	76.769	2	20
36195	68.780	12	24	33163	70.632	3	23	29972	72.679	1	10	26383	74.703	10	15	22888	76.769	2	20
36117	68.829	9	25	32999	70.732	14	23	29972	72.679	1	10	26383	74.703	10	15	22888	76.769	2	20
36116	68.829	9	12	32925	70.838	1	23	29926	72.777	15	18	25998	74.967	5	24	22779	76.833	8	20
36074	68.852	4	17	32564	70.995	10	21	29926	72.777	15	18	25998	74.967	5	24	22745	76.833	15	25
36066	68.852	3	21	32495	71.038	6	24	29926	72.777	15	18	25998	74.967	5	24	22609	76.933	3	7
35990	68.934	7	18	32425	71.084	9	9	29926	72.777	15	18	25998	74.967	5	24	22542	76.972	11	23
35929	69.075	11	20	32402	71.094	9	25	29926	72.777	15	18	25998	74.967	5	24	22467	77.016	15	20
35752	69.052	1	21	32344	71.129	4	10	29926	72.777	15	18	25998	74.967	5	24	22349	77.086	5	21
35741	69.050	4	9	32275	71.171	13	19	29926	72.777	15	18	25998	74.967	5	24	22240	77.150	8	22
35566	69.166	17	24	32225	71.201	8	16	29926	72.777	15	18	25998	74.967	5	24	21958	77.316	3	14
35500	69.182	10	16	32218	71.205	2	14	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
35518	69.195	9	23	32195	71.219	15	24	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
35511	69.206	19	22	32163	71.239	12	15	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
35481	69.218	4	22	32097	71.279	7	20	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
35354	69.294	2	17	31933	71.391	4	24	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
35298	69.330	13	25	31911	71.391	0	14	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
35123	69.437	0	17	31824	71.444	2	10	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
35065	69.473	6	14	31656	71.545	0	10	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
35053	69.480	3	13	31624	71.565	11	22	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34996	69.631	12	21	31611	71.572	5	15	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34794	69.642	19	25	31611	71.572	2	24	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34747	69.667	4	22	31611	71.572	6	11	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34711	69.678	9	10	31522	71.626	7	25	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34709	69.691	19	23	31504	71.637	0	24	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34651	69.732	10	13	31449	71.671	16	25	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34595	69.763	5	19	31372	71.717	14	20	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34531	69.800	10	24	31199	71.875	13	16	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34359	69.905	7	23	31192	71.875	5	20	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34344	69.913	11	17	31192	71.875	5	20	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34324	69.922	2	22	31194	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34272	69.957	1	13	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34264	69.965	1	13	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9	22	31093	71.914	9	21	29926	72.777	15	18	25998	74.967	5	24	21852	77.316	3	14
34194	70.005	9																	

TABLE 3 (Concluded)

Cos "	"	m	n	Cos "	"	m	n	Cos "	"	m	n	Cos "	"	m	n
.17316	80.029°	3	9	.14172	81.853°	8	23	.10481	83.869°	5	15	.07555	85.667°	11	23
.17125	80.140°	7	11	.14089	81.901°	3	11	.10471	83.990°	14	20	.07503	85.697°	5	21
.17120	80.142°	3	18	.14039	81.930°	3	22	.10444	84.005°	9	17	.07461	85.721°	8	22
.17053	80.181°	13	22	.13928	81.984°	1	22	.10306	84.085°	3	15	.07370	85.774°	3	21
.16984	80.231°	9	30	.13925	81.996°	12	25	.10197	84.147°	6	16	.07346	85.787°	12	24
.16919	80.269°	1	18	.13832	82.049°	12	18	.10182	84.156°	15	21	.07305	85.811°	1	21
.16903	80.269°	16	18	.13782	82.078°	6	23	.10131	84.184°	1	15	.07236	85.851°	6	22
.16852	80.298°	6	19	.13746	82.099°	9	24	.10073	84.219°	10	18	.07228	85.855°	9	23
.16598	80.444°	14	23	.13655	82.152°	1	11	.09915	84.310°	16	22	.07153	85.898°	13	25
.16528	80.487°	1	9	.13559	82.207°	7	13	.09793	84.380°	4	16	.07087	85.936°	4	22
.16443	80.536°	10	21	.13523	82.228°	4	23	.09774	84.391°	7	17	.07016	85.977°	10	24
.16440	80.538°	17	19	.13375	82.314°	13	17	.09738	84.411°	11	19	.07002	85.985°	2	22
.16384	80.570°	4	19	.13374	82.314°	2	23	.09668	84.452°	17	23	.06995	85.989°	7	23
.16279	80.631°	8	12	.13356	82.325°	10	25	.09572	84.507°	2	16	.06974	86.001°	0	22
.16235	80.657°	7	20	.13341	82.333°	7	24	.09501	84.548°	0	16	.06834	86.081°	5	23
.16177	80.690°	15	24	.13326	82.342°	0	23	.09430	84.584°	18	24	.06821	86.089°	11	25
.16121	80.723°	2	19	.13215	82.406°	4	12	.09435	84.586°	12	20	.06777	86.114°	8	24
.16093	80.739°	4	10	.13061	82.496°	5	24	.09400	84.606°	8	18	.06733	86.139°	3	23
.16036	80.772°	0	19	.12960	82.553°	14	18	.09349	84.636°	5	17	.06686	86.168°	1	23
.16013	80.786°	18	20	.12949	82.561°	9	14	.09225	84.707°	19	25	.06607	86.212°	6	24
.15951	80.822°	11	22	.12939	82.566°	8	25	.09159	84.745°	13	21	.06578	86.229°	9	25
.15788	80.916°	16	25	.12892	82.599°	3	24	.09095	84.782°	3	17	.06493	86.277°	4	24
.15735	80.947°	5	20	.12796	82.648°	1	24	.09065	84.799°	9	19	.06427	86.315°	2	24
.15691	80.978°	8	21	.12686	82.712°	2	12	.08975	84.851°	1	17	.06406	86.327°	0	24
.15617	81.015°	19	21	.12641	82.738°	6	25	.08961	84.859°	6	18	.06401	86.330°	7	25
.15549	81.055°	9	13	.12592	82.772°	15	19	.08905	84.891°	14	22	.06277	86.401°	5	25
.15500	81.033°	12	23	.12523	82.806°	0	12	.08764	84.972°	10	20	.06198	86.447°	3	25
.15426	81.126°	3	20	.12486	82.827°	5	13	.08692	85.016°	4	18	.06160	86.469°	1	25
.15276	81.212°	1	30	.12445	82.854°	4	25	.08672	85.025°	15	23				
.15259	81.228°	20	22	.12412	82.870°	9	15	.08617	85.057°	7	19				
.15181	81.268°	9	22	.12324	82.921°	2	25	.08527	85.108°	2	18				
.15163	81.279°	2	10	.12286	82.943°	0	25	.08491	85.120°	11	21				
.15158	81.285°	6	21	.12235	82.972°	16	20	.08478	85.137°	0	18				
.15097	81.317°	5	17	.11939	83.144°	10	16	.08456	85.149°	16	24				
.15085	81.324°	13	24	.11916	83.157°	17	21	.08432	85.227°	5	19				
.14907	81.427°	10	14	.11909	83.167°	3	13	.08310	85.233°	8	20				
.14907	81.427°	21	23	.11865	83.186°	6	14	.08255	85.265°	17	25				
.14887	81.439°	0	10	.11633	83.320°	1	13	.08242	85.272°	12	22				
.14814	81.491°	4	21	.11620	83.327°	19	22	.08141	85.331°	3	10				
.14755	81.532°	10	23	.11514	83.398°	11	17	.08055	85.380°	1	19				
.14702	81.546°	14	25	.11345	83.486°	19	23	.08034	85.392°	9	21				
.14640	81.552°	7	22	.11329	83.495°	7	15	.08014	85.403°	13	23				
.14619	81.554°	2	21	.11240	83.546°	4	14	.08002	85.410°	6	20				
.14596	81.613°	22	24	.11133	83.609°	12	18	.07994	85.524°	14	24				
.14556	81.630°	0	21	.11088	83.634°	20	24	.07902	85.525°	4	20				
.14394	81.754°	11	15	.10909	83.737°	2	14	.07794	85.536°	10	22				
.14394	81.774°	11	24	.10860	83.764°	8	16	.07717	85.574°	7	21				
.14246	81.797°	23	25	.10849	83.772°	21	25	.07689	85.590°	2	40				
.14270	81.796°	5	22	.10805	83.797°	0	14	.07653	85.611°	0	20				
.14265	81.796°	6	12	.10787	83.808°	13	10	.07609	85.636°	15	25				

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